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THE MARKET GARDENERS' SEED CO'S.

SEED CATALOGUE

120-122-124-126 East Court St.
CINCINNATI, OHIO

D. N. Shoemaker,

MAR 27 1922

DELICIOUS

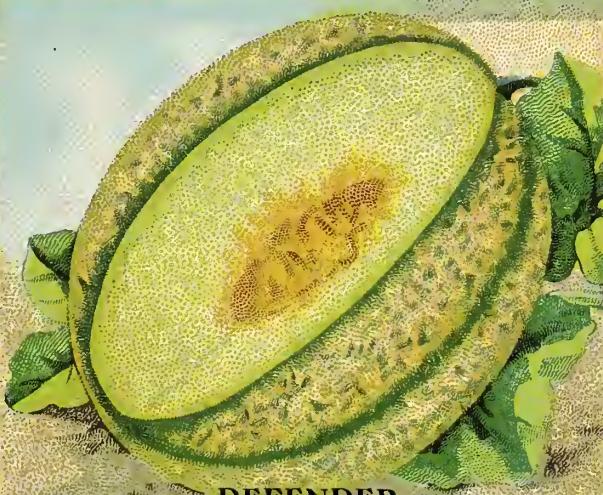


M. S. SEED CO'S.
NEW SUCCESS

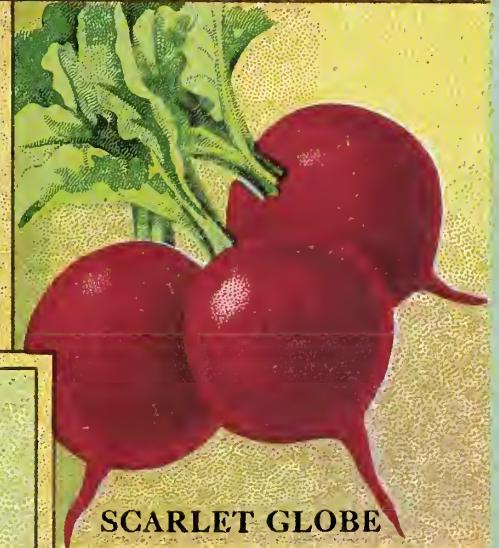


HARRIS EARLIEST

ROUND POD
KIDNEY WAX

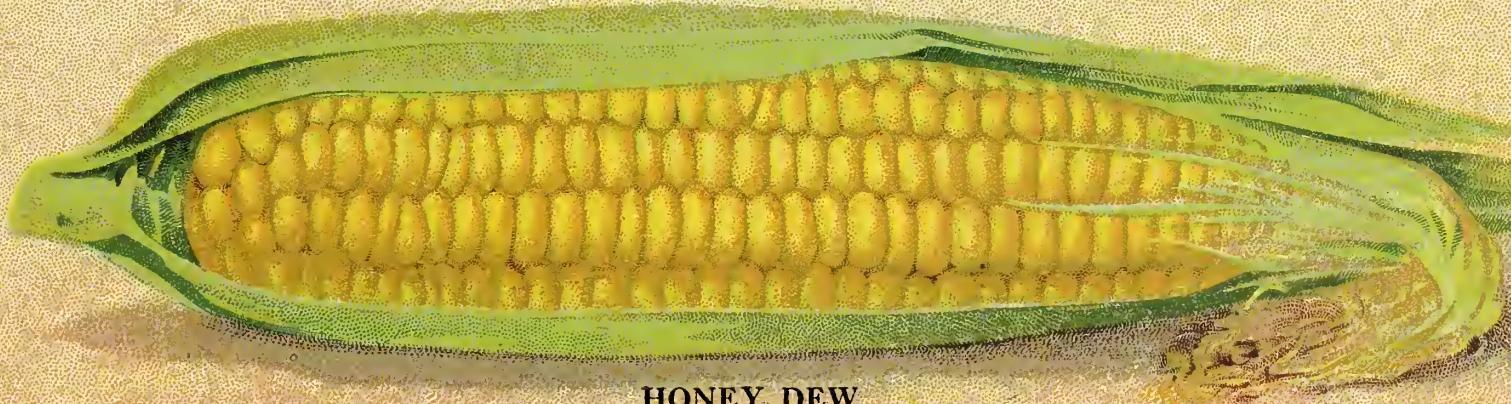


DEFENDER



A Few of Our Specialties

TRY THEM



THE MARKET GARDENERS' SEED CO'S. CATALOGUE 1922

NO MYSTERY

SUCCESS in any line of endeavor is more or less dependent upon the ability to be a leader in the enterprise you may be engaged in. The secret of becoming a leader is merely the knack of securing followers and in the business world the securing of followers is no mystery. The plan is as old as the hills. It is simply honest merchandise, reasonable prices, efficient service, plus courtesy and constant efforts to satisfy your patrons. All reliable dealers in garden seeds undoubtedly try to live up to the standards expressed above, but from lack of experience, facilities for handling and long years of training do not always "hit the nail on the head." We may miss it ourselves once in a while but figured on the law of averages we are rather proud of our record. Our enlarged place of business makes it possible to take care of your needs better than ever before and we feel safe in saying that no seed store in Cincinnati and vicinity is better equipped to serve you. Some folks say times are a little tight, or it may be that people in general are a bit more careful but whether times are tight or people more careful, you can't go wrong in planning for the best garden you have ever had when the spring of 1922 is here. You simply buy the seed of us, prepare the ground, help nature just a little and she will do the rest.

Non-Warranty Sometimes, though not often, our seeds do not come up after planting. This may be due to one or more of several reasons, such as covering too deeply or not deeply enough, too much or too little water, too cold weather or a baking sun which forms a crust too hard for the tender shoots to penetrate. Sometimes insects destroy plants at the surface before they are seen by the gardener. We cannot personally direct the use of our goods after they leave our hands; neither can we fully control anywhere or at any time the operation of natural law as it affects seeds; therefore, we give no warranty, express or implied, as to description, purity, productiveness, or any other matter of any seeds or bulbs we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

How to Send Money Remittances may be made at our risk by the following methods, viz: Postal Money Order, or Express Company's Money Order.

The rates charged for Postal Money Orders and Express Money Orders are now so low that these are the best ways to remit. We will bear the expense of sending money in either of these ways. Deduct the cost of the order from amount sent. Express Money Orders can be obtained at all offices of the principal Express Companies. They are cheap and absolutely safe.

When Money Orders cannot be obtained, letters containing money should always be registered. Money in ordinary letters is unsafe.

Free of Postage or Express Charges.

Packets, Ounces, Two Ounces, Quarter Pounds, ordered at list prices, will be sent free by mail or express.

The Essentials to Good Vegetables and Beautiful Flowers

Good Soil A rich, sandy loam is the best, but a fair degree of success may be secured from any soil which can be made rich and friable. Vegetables of the best quality cannot be grown on barren sand, a cold, hard, lumpy clay, nor in the shade of orchard or other trees.

Liberal Manuring A soil which does not need enriching in order to produce the best results is rarely found and very often success is in proportion to the liberality with which fertilizers have been used. Well decomposed stable manure where straw bedding has been used is the best; manure where sawdust has been used for bedding is not so good. Often wood ashes at the rate of one peck up to one bushel to the square rod will be of great benefit.

When good stable manure is not available, commercial fertilizers may be used at the rate of four to twelve pounds to the square rod and the more concentrated forms, such as Nitrate of Soda, Guano, Dried Blood, and Potash Salts, at the rate of one to six pounds to the rod, the larger amounts preferably in three or four applications and at intervals of about ten days. A mass or lump of any of the commercial fertilizers, even if it is but a quarter of an inch in diameter, is liable to kill any seed or young plant which comes in contact with it, so it is very important if such fertilizers be used that they be thoroughly pulverized and mixed with the soil.

Thorough Preparation Rich soil and liberal manuring will avail little without thorough preparation. The soil must be made friable by thorough and judicious working; if this is well done all that follows will be easy; if it is neglected, only partial success is possible and that at the cost of a great deal of hard work.

The garden should be well plowed or dug to a good depth, taking care, if it is a clay soil, that the work is not done when it is too wet. If a handful from the furrow moulds with slight pressure into a ball which cannot be easily crumbled into fine earth again, the soil is too wet and if stirred then will be hard to work all summer. The surface should be made as fine and smooth as possible with the

Seeds ordered at list prices, five cents per lb. must be added for transportation and packing and they will then be sent free.

Hundred Pound Lots Where Hundred Pound lots are ordered, we deliver free at depot or express office our city, the freight or express charges to be paid by the party ordering.

Larger Quantities If Seeds, etc., are wanted in larger quantities, write for prices.

Bags To every order for one-quarter bushel and upwards, to the amount of two bushels, 40 cents must be added for a new bag in which to ship.

Seeds in Packets We offer the following inducements to those wishing to purchase seeds in packets before April 1: Select packets to the value of \$1.15 and send us \$1.00; for \$2.35 send \$2.00; for \$3.60 send \$3.00; for \$4.85 send \$4.00; for \$6.15 send \$5.00; for \$12.50 send \$10.00; for \$26.00 send \$20.00. The seeds will be sent by mail, postpaid, but these low rates apply to seeds in packets only and at catalogue prices and not to seeds by weight.

The rates are made to induce early buying before our rush season is on.

Name and Address Frequently we receive unsigned letters. Sometimes they contain money orders. Sometimes too, letters are received in which the name of the town is left out and the postmark blurred. We cannot fill orders unless we know the name and address of the buyer. The easiest way for you is to use our order sheet, filling in the blanks.

harrow or rake. It is generally desirable to plow the whole garden at once and to do this in time for the earliest crops, but the part which is not planted for some weeks should be kept mellow by frequent cultivation.

Good Seeds There is no more prolific source of disappointment and failure among amateur gardeners than hasty, careless, or improper sowing of the seed. A seed consists of a minute plant enclosed in a hard and more or less impervious shell with a sufficient amount of food stowed in or around the germ to sustain it until it can expand its leaves, form roots, and provide for itself. Moisture, heat, and a certain amount of air are necessary to secure germination. The germinating seed first absorbs water and swells. The starchy matters gradually become soluble. The seed-coats are ruptured, the stemlet and bud emerge. The embryo lives for a time on the stored food, but gradually the plantlet secures a foothold in the soil and gathers food for itself. Germination is complete when the plantlet is able to shift for itself.

A dry seed may retain its vitality and remain unchanged for years, but after germination has commenced a check of a day or two in the process may be fatal. There is no time in the life of a plant when it is so susceptible of injury from the over-abundance or want of sufficient heat and moisture as at the period between the commencement of germination and the formation of the first true leaves. It is just then that the gardener should aid in securing favorable conditions. These are:

FIRST—A proper and constant degree of moisture. The soil should always be moist, never wet. To secure this cover the seed as soon as it is planted with well pulverized, freshly prepared earth pressing it firmly over the seed. This firming of the soil is very important as it brings the particles of earth into close contact with seeds and roots, prevents the drying out of the soil and facilitates quick growth. The best results are obtained in small gardens by laying a board on the row and then walking upon the board, or the back of the hoe may be used, but for truck farms and field crops a roller is equally satisfactory.

SECOND—A proper degree of heat, secured by sowing the seed when the temperature of the soil is that most favorable to the germination of the seed of that particular plant. Too high a temperature is often as detrimental as one too low. The proper temperature for each sort may be learned from a careful study of the following pages and the experience of the most successful gardeners in your vicinity.

THIRD—Covering the seed to such a depth that while a uniform degree of heat and moisture is preserved the necessary air can readily reach the germinating seed and the tiny stem push the forming leaves into the light and air. This depth will vary with different seeds and conditions of the soil and can be learned only from practical experience. In general, seeds of the size of the turnip should not be covered with more than half an inch of earth pressed down, while corn may be an inch, beans an inch to two inches, and peas one to three inches deep.

FOURTH—Such a condition of soil that the ascending stem can easily penetrate it and the young roots speedily find suitable food. We can usually secure this by thorough preparation of the ground and taking care never to sow fine seeds when the ground is wet. Occasionally a heavy or long continued rain followed by a bright sun will so bake and crust the surface that it is impossible for the young plant to find its way through it, or a few days of strong wind will so dry the surface that the young plants will be killed. In such cases the only remedy is to plant again.

Judicious Cultivation Not only should every weed be removed as soon as it appears, but the crust which forms after a rain should be broken up and the ground stirred as soon as it is dry enough to permit it. The more frequently and deeply the soil is stirred while the plants are young, the better, but as they develop and the roots occupy the ground, cultivation should be shallower until it becomes a mere stirring of the surface. The yield and quality of vegetables have often been decidedly lowered by injudiciously deep and close cultivation after the roots of the plants had fully occupied the ground. A very small garden, well cultivated and cared for, will give larger returns and be in every way more satisfactory than a much larger one poorly prepared and neglected.

How to Build and Manage Hotbeds

For early vegetables, some provision for starting certain plants earlier than can be done in the open air is desirable; for this purpose nothing is better than a good hotbed and its construction is so simple and the expense so slight that every garden should have one. A hotbed proper not only protects the plants from the cold, but supplies bottom heat. By this term the gardener means that the soil is constantly kept several degrees warmer than the air above, that being the condition, so far as heat is concerned, which is most favorable for rapid and vigorous growth, and gardeners secure it by making a compact pile of some fermenting material and covering it with the earth in which the plants are to grow.

Heating Material The best heating material that is easily available is fresh horse manure, containing a liberal quantity of straw bedding. Such manure, if thrown into a loose pile, will heat violently and unevenly and will soon become cold. What is wanted in the hotbed is a steady and moderate but lasting heat. To secure this, the manure should be forked over, shaken apart and if dry, watered and allowed to stand a few days and then be forked over again, piled and allowed to heat a second time, the object being to get the whole mass into a uniform degree of fermentation and as soon as this is accomplished it is fit for use.

Sash Some gardeners use sash made especially for hot-beds and glazed with small lights cut from odds and ends and so furnished at very low rates. Such sash can usually be procured in any of our large cities and costs much less than if made to order. For garden use, however, we much prefer a smaller sash that can be easily handled and the use of larger and better glass. We recommend that for home gardens the sash be about two and one-half by four or five feet and that the glass be not less than 10x14, laid with not more than one-quarter inch lap. In giving the order to one unaccustomed to the work, it would be well to state what they are to be used for, and that they need to be made like skylight sash.

The Frame This may be made of sound one-inch lumber, the back twelve to fourteen inches high, the front ten to twelve. It should be well fitted to the sash so as to leave as little opening as possible and yet allow the sash to be easily moved up and down, even when the frame is quite wet.

The Soil This should be light, rich, friable. Any considerable amount of clay in it is very objectionable. If possible, it should be unfrozen when put into the bed; for this reason it is much better to prepare it the fall before and cover the pile with enough coarse manure or straw to keep out the frost.

Making the Bed This requires careful attention upon the manner in which this work is done. Having cleared away snow and ice, build a rectangular bed one foot larger each way than the frame to be used, carefully shaking out and spreading each forkful and repeatedly treading down the manure so as to make the bed as uniform as possible in solidity, composition and moisture. It is of the utmost importance that this shaking apart and evenly pressing down of the manure should be carefully and thoroughly done; unless it is, one portion will heat quicker than the other and the soil will settle unevenly, making it impossible to raise good plants.

The proper depth of the bed will vary with the climate, season, and the kind of plants to be raised. A shallow bed will quickly give a high temperature which will soon subside; a deeper one, if well made, will heat more moderately, but continue much longer. For general purposes, a bed about two feet deep will be best.

The bed completed, the frame and sash may be put on and fresh manure carefully packed around the outside to the very top (if the weather is at all severe, this outside banking should be replenished as it settles.) The bed should then be allowed to stand with the sash partially open for a day or two to allow the steam and rank heat to pass off.

The earth should then be evenly distributed over the surface of the bed and carefully leveled. The earth should not

be shoveled or dumped in one or more places in the bed and then leveled; if this is done uneven settling of the bed invariably results. Care should be taken that the soil is dry and friable. If wet or frozen soil must be used, it should be placed in small piles until well dried out before spreading. The heat at first will be quite violent, frequently rising to 120 degrees, but it soon subsides and when it recedes to 90 degrees the seed may be planted. The importance of using dry soil and allowing the first rank heat to pass off is very great. Every season thousands of hotbeds fail of good results from these causes and seedsmen are blamed for failure resulting from overheat, or wet, soggy soil.

Management of the Bed The essentials for success are a steady uniform degree of heat and moisture; keeping the soil at all times a few degrees warmer than the air and the careful "hardening off" (by exposure to the air and diminishing the supply of water) of the plants before transplanting into the open air. Simple as these may seem to be, there are many difficulties in the way of securing them, prominent among which is overheating the air under a bright sun.

Without experience one would scarcely believe how quickly the temperature inside of a well built hotbed will rise to 90 or 100 degrees upon a still, sunny day, even when the temperature outside is far below freezing, or how quickly the temperature will fall to that outside, if upon a windy, cloudy day the sash is left open ever so little. A rush of cold air driven over the plants is far more injurious than the same temperature when the air is still. Again, in cloudy weather, a bed will go several days without watering, but will dry up in an hour when open on a sunny day.

The details of management, however, must be learned by experience, but may be easily acquired by one who gives the matter careful attention, keeping constantly in mind the essentials given above.

A Cold-Frame is a simple construction of boards and is useful to protect and harden off plants from the greenhouse or hot-bed before fully exposing them in the open air.

Select a dry, southern exposure, form a frame from four to six feet wide and as long as required. The back should be fourteen to eighteen inches high and the front eight to twelve, with a cross-tie every three feet. The frame may be covered with sash or cloth. Admit air freely on pleasant days, but keep close in severe weather.

Watering The best time to water plants is early in the morning or in the evening. Water may be given to the roots at any time, but should never be sprinkled over the leaves while they are exposed to bright sunshine. If watering a plant has been commenced, continue to supply it as it is needed, or more injury than good will result from what has been given. One copious watering is better than many scanty sprinklings. The ground should always be stirred with a hoe or rake before it becomes so very dry as to cake or crack.

Transplanting In transplanting, the main points to be regarded are: care in taking up the plants so as to avoid injury to the roots, setting out as soon as possible to prevent the air coming in contact with the roots, setting firmly so as to enable the plant to take a secure hold of the soil and shading to prevent the hot sun from withering and blighting the leaves. Where a rank or soft growth of tops has been made in hotbed it is frequently desirable to trim off some of the larger leaves before taking up to transplant so that evaporation later may be retarded.

In transplanting from a hotbed, harden the plants by letting them get quite dry a day or two before, but give an abundance of water a few hours before they are taken out. It is most apt to be successful if done just at evening, or immediately before or during the first part of a rain, about the worst time being just after a rain, when the ground being wet it is impossible to sufficiently press it about the plant without its baking hard. If water is used at all it should be used freely and the wet surface immediately covered with dry soil.

ILLUSTRATED AND DESCRIPTIVE CATALOGUE
OF
VEGETABLE SEEDS
WITH GENERAL DIRECTIONS FOR CULTIVATION

The varieties in each class (for example, Wax Podded Beans) are usually arranged in their order of earliness. The descriptions of the varieties offered by us are based upon our very careful observations of the types as understood by us after many years of experiences in the seed business. Nevertheless it should always be remembered that many vegetables are much affected in their habit of growth of plant and size, form, and quality of the fruits by conditions of soil, climate, location, and mode of culture which are often beyond our control, and our descriptions are for what may be expected under conditions that are approximately normal and favorable for good development.

The cultural directions in this catalog are necessarily limited but they are as complete as space permits.

Artichoke

The seed we offer is that of the true artichoke which is an extensively used vegetable in Europe. In it the edible portion is the thickened scales at the base of the flower-heads or buds. The plant is very different from what is known in America as Artichoke or Jerusalem Artichoke, in which the edible portion is the tuber.

In February or March sow and transplant in hotbed so as to give plenty of room until danger of frost is over. Then set in very rich, well drained soil in rows four feet apart and two feet apart in the row. The plants can be raised in seed beds out of doors, but in that case will not be likely to produce heads the first year. Late in the fall cut off the old tops and thoroughly protect the crowns with leaves or straw to prevent severe freezing.

The second year thin the starting shoots to three of the best, which will commence to form heads about July 1. The plants may also be blanched like cardoons. This is done by cutting back the stems close to the ground in July, the rapidly growing shoots which then start up may be tied and blanched like celery. As artichoke plants do not yield satisfactorily after three or four years, it is best to start a new plantation as often as once in three years.

Green Globe The plant of this variety is of medium height with rather deep green leaves. The buds or flower-heads are green, nearly round or somewhat elongated. The scales are rather narrow and spiny, and are moderately fleshy at the base. Giant Pkt. 10c; Oz. 85c. $\frac{1}{4}$ lb. \$2.25.

Asparagus

This is one of the earliest and most delicious of spring vegetables. We strongly urge all those having enough available space to put in a bed for their own use, following carefully the cultural directions given below.

Beds are usually formed by setting roots which can be procured of us. If you wish to grow plants from the seed yourself, pour warm water on the seed and allow it to stand until cool; pour it off and repeat two or three times with fresh warm water. Sow in spring in drills about eighteen inches apart and two inches deep in light, rich soil, planting fifteen to twenty seeds to each foot of row. When the plants are well up, thin to about one inch apart and give frequent and thorough cultivation during the summer. If this has been well done, the plants will be fit to set the next spring.

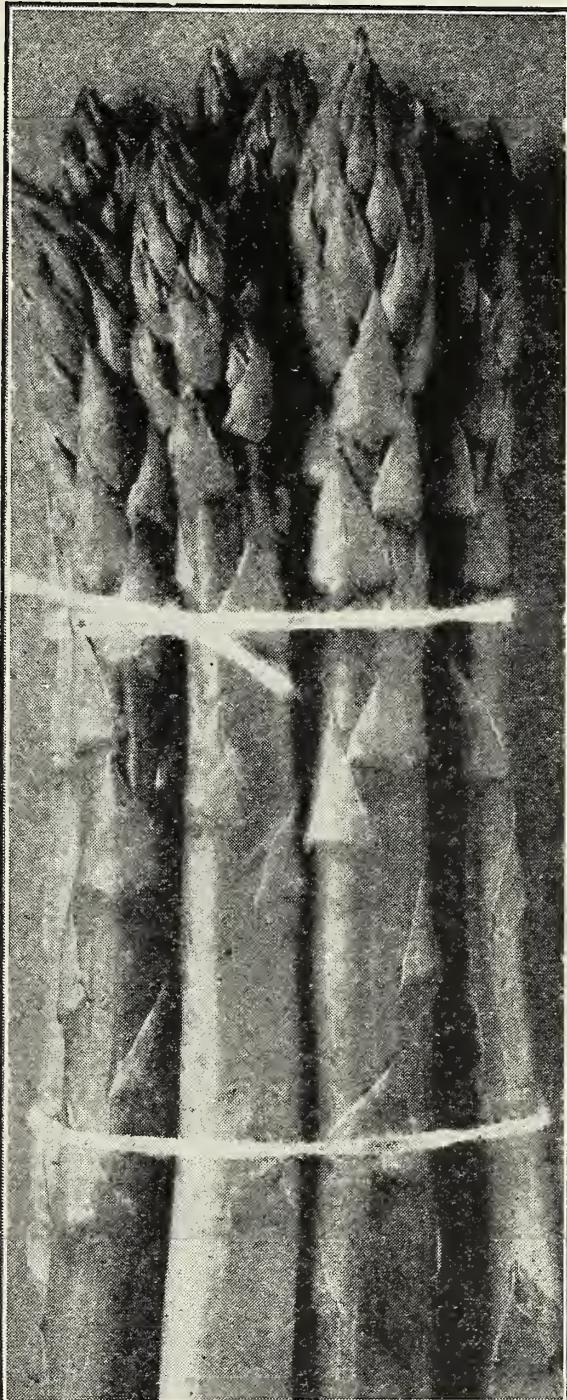
The permanent beds should be prepared by deep plowing or spading and thoroughly enriching the ground with stable manure or other fertilizer; a moist, sandy soil is best. If the subsoil is not naturally loose and friable, it should be made so by thoroughly stirring with a subsoil plow or spade. Set the plants about four inches deep and one to two feet apart in rows four to six feet apart. After the plants are well started, give frequent and thorough cultivation. Early the next spring spade in a heavy dressing of manure and about one quart of salt and double the quantity of fresh wood ashes to each square rod and cultivate well as long as the size of plants will permit, or until they begin to die down. The next season the bed may be cut over two or three times, but if this is done, all the shoots, no matter how small, should be cut. After the final cutting, give a good dressing of manure, ashes, and salt. Cultivate frequently until the plants meet in the rows.

In autumn after the tops are fully ripe and yellow, they should be cut and burned. A bed fifteen by fifty feet, requiring about one hundred plants, if well cultivated and manured, should give the following season an abundant supply for an ordinary family and continue productive for eight or ten years.

Palmetto A very early maturing and prolific variety, producing an abundance of very large, deep green shoots of the best quality. Seed, Giant Pkt. 10c; $\frac{1}{4}$ lb. 30c. Roots, Postpaid; \$2.00 per 100; \$10.00 per 1000.

Columbian Mammoth White This excellent variety, exceptionally large size and of superior tenderness and flavor. The color is clear white until four to six inches above the surface. A large proportion of the seeds will produce white shoots and the green ones can be rejected when setting out the permanent bed. ROOTS—Best 2-year-old seed. Oz. 10c; $\frac{1}{4}$ lb. 25c. Roots, Postpaid; \$2.00 per 100; \$10.00 per 1000.

Giant Argentuil This sort is the largest and most extensively used green variety. Shoots bright green tinged with purple at the top, very tender and of the best quality. This variety is recommended as the best for Market Gardeners. ROOTS—Best quality 2-year-old seed. Oz. 10c; $\frac{1}{4}$ lb. 25c; Roots, Postpaid; \$2.00 per 100; \$10.00 per 1,000.



Giant Argentuil

BEANS

No crop responds more readily than Beans to good soil and cultivation. A light, rich, well drained loam which was manured for the previous crop is the most desirable. If too rank manure is used it is apt to make the plant run too much to vine.

Beans are very sensitive to both cold and wet and it is useless to plant them before the ground has become dry and warm. The large returns will result from planting in drills from two to three feet apart. Cover the seed one and one-half to two inches deep and thin the young plants three to six inches apart in the row. If planted in hills, make the hills about two feet apart each way. For succession, plant at intervals of two weeks till midsummer. The plants up to the time of blossoming should have frequent shallow cultivation, but any mutilation of the roots by cultivation after the plants come into bloom is likely to cause the blossoms to blast and so cut off the crop. Cultivation should be very shallow and it is useless to expect a crop from a field so poorly prepared as to need deep stirring after planting.

Our growers give careful attention to selecting and improving the different varieties and keeping them pure and we invite the most critical comparison of our stocks with those of any other seedsmen.

The varieties of garden beans we offer have been separated for convenience into five groups: Wax Podded Dwarf or Bush sorts, Green Podded Dwarf or Bush sorts, Dwarf Limas, Pole or Running sorts, and Pole Limas. Nearly all of these sorts, except the Limas, are suitable when young for use as snaps. The low growing sorts are called Bunch beans in some sections. In northern latitudes the term "butter beans" is often applied to low growing wax podded sorts. In the south, however, by "butter beans" is usually meant limas.

Notice—If beans are ordered sent Parcel Post, add 5c for the first lb.; 1c for each additional lb.

Dwarf or Bush—Wax Podded Sorts

Challenge Dwarf Black Wax

Continued experience has satisfied us of the great merit of this variety as an early wax podded bean. The plants although small, are compact and erect, bearing pods well up from the ground. The pods are an attractive medium yellow in color, medium sized, about four and one-fourth inches long, roundish oval, considerably curved, fleshy, crisp, tender, and stringless. Seed jet black. We consider this the best early wax bean for the home or market garden. Lb. 30c; 5 lbs. \$1.40.

M. G. Seed Co's. Golden Wax

This is one of the earliest and best dwarf sorts for the home market and private gardens. The plants are erect, compact, and very productive. The pods are of medium length, four and one-half to five inches, nearly straight, broad, flat, golden yellow, very fleshy and wax-like. The variety cooks quickly as snaps, shelling well when green, and is of superior quality used in either way. Seed medium sized, oval, white, more or less covered with two shades of purplish red. The amount and shade of color on this and all parti-colored beans will be affected greatly by conditions of soil and ripening. We are convinced that none of the so-called improved strains is equal to the seed we offer of this standard variety.

Lb. 30c; 5 lbs. \$1.40.



Round Pod Wax

M. G. Seed Co's. Round Pod Wax

spreading and very productive. The leaves are large, broad and roughened. The pods are long and round, five and one-half to six inches, slightly curved, light yellow, wax-like, stringless and of the very best quality. Seed long, cylindrical, medium sized, nearly white with a little dark marking about the eye. Lb. 30c; 5 lbs. \$1.40.

Pencil Pod Wax

This very handsome black wax sort is medium early, fairly hardy and productive. It is one of the very best sorts for home use and for near market where highest quality is desired. The plants are strong growing with roughened leaves. The pods are long, five and one-half to six inches, straight, round, fleshy and of a bright yellow color. They are tender, absolutely stringless and are produced through a long season. Seed long, round, medium sized, solid black. Lb. 30c; 5 lbs. \$1.40.

BEANS—DWARF OR BUSH

GREEN PODDED SORTS

The green podded dwarf sorts are perhaps the most important class of garden beans and are probably more extensively used for snaps than the wax podded varieties, although the latter are considered by many as the more attractive in appearance. The green podded sorts are as a rule the more productive, being less sensitive to unfavorable conditions of soil and climate and of late years have been less susceptible to bean diseases.

Extra Early Refugee An extremely early, green podded sort furnishing round, fleshy, light green pods which are slightly curved, of medium size, about five inches long and of fine quality. The plants are a little smaller, more upright, and the leaves a little larger than those of the late Refugee, and the seed much the same in shape and color. Our stock is uniform, the vines ripening pods well together and long before those of the Refugee or Thousand to One. Seed long, cylindrical, rounded at ends, drab, nearly covered with dark purple blotches. This is an excellent snap bean for early markets and stands shipment well. Lb. 25c; 5 Lbs. \$1.15.

Early Yellow Kidney Large, vigorous, long, about six inches. **Six Weeks** straight, flat, handsome, rather light green and when young are of good quality for snaps. Seed medium sized, long, kidney shaped, light yellow with small brownish circle about the eye. This is early maturing and a fine shipper. It is much used for the home garden and market. Lb. 25c; 5 lbs. \$1.15.

Bountiful This excellent dwarf, green podded sort is similar in appearance to Early Yellow Kidney Six Weeks but is of much better quality. The vines are vigorous and productive. The pods are very long, six to seven inches, straight, broad, flat, of handsome appearance and absolutely stringless for snaps. They are tender and brittle much longer than most sorts. The pods are longer, broader, and have longer tips than those of Long Yellow Six Weeks. Seed medium sized, slender, light yellow with brownish circle about eye. Bountiful is a most desirable early sort for snaps for the home garden. Lb. 25c; 5 lbs. \$1.15.

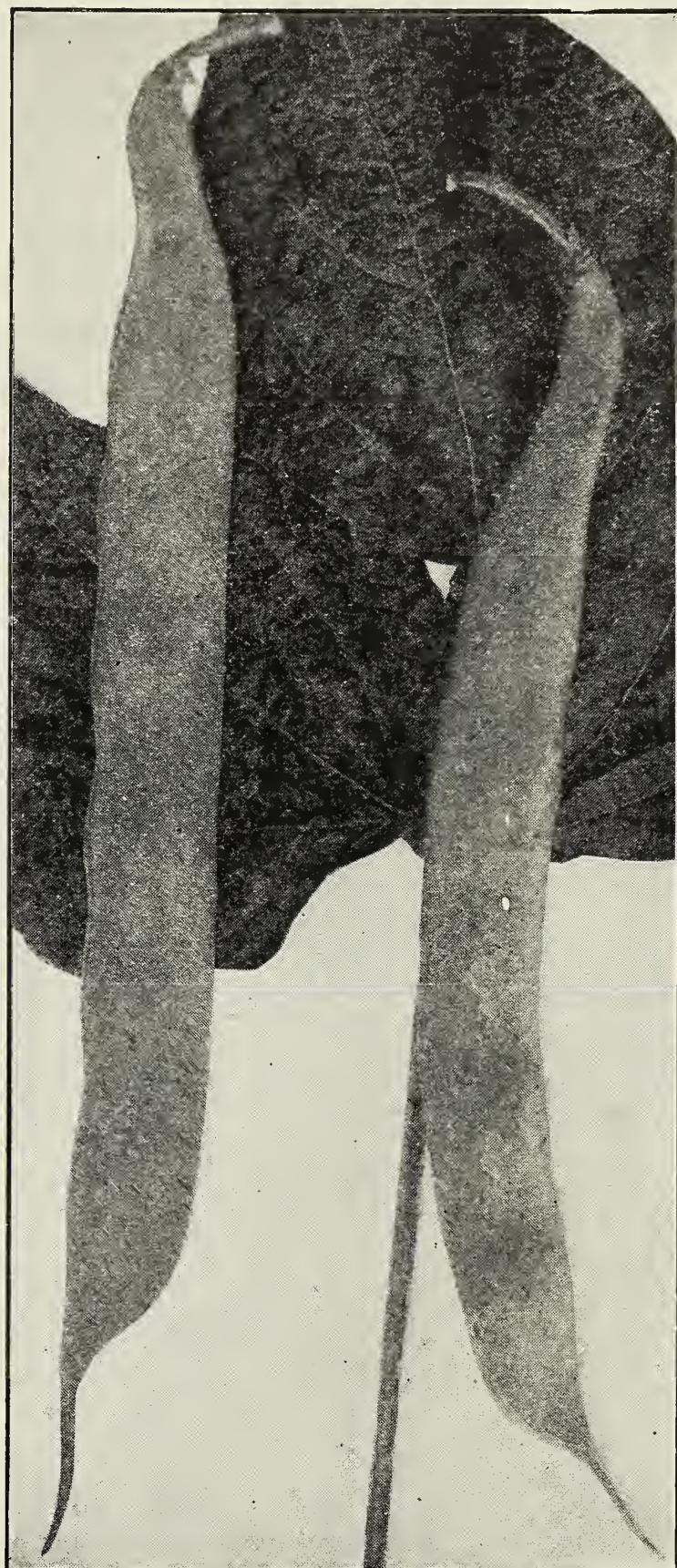
Extra Early Round Pod Red Valentine For snaps there is nothing superior to this variety among the dwarf green podded sorts both for the home and market garden and many prefer it to the wax varieties. The plants are of medium size, erect, with dark green leaves. The pods are of medium length, about four and one-half inches, medium green color, curved, cylindrical, with crease in back, very fleshy, crisp, and tender. Where the young plants have to contend with adverse conditions, no other dwarf bean is more certain than the Valentines are to set pods. Seed long, of medium size and unsymmetrical in shape, purplish pink splashed with pale buff. Lack of symmetry in the seed of this variety is an indication of superior fleshiness and good quality in the pods. We know of no stock of Red Valentine which can be compared with that we offer in uniformly high quality of pod. Our strain combines in high degree all the good qualities of the sort. Lb. 25c; 5 lbs. \$1.15.

M. G. Seed Co's. This new and excellent dwarf green podded sort is similar to **Stringless White Valentine** the well known Red Valentine, quality and productiveness just as good, and having the advantage of a white seed so long sought after. The vines are vigorous, very productive, pods six to seven inches long, round, brittle and of excellent quality. This sort has this decided advantage if the market is overstocked with green podded beans; let them ripen and you have an unequaled, pure white shell bean for baking. Lb. 35c; 5 lb. \$1.60.

Stringless Green Pod A very desirable dwarf green podded snap sort for the home garden and largely grown for the market. The plants are large, spreading and productive. The pods are medium green, five to six inches long, cylindrical, larger than those of Red Valentine but are quite as fleshy, of equally high quality and remain crisp and tender longer. They mature a little later. Seed of medium size and length, yellowish brown. Lb. 25c; 5 lbs. \$1.15.

Giant Stringless Green Pod An exceedingly productive and very handsome sort. The plants are large, vigorous, and spreading. The pods are large and nearly round, and of medium green color. They mature a few days later than those of Stringless Green Pod, average about one-fourth inch longer and more nearly straight. The quality is very good for snaps for home use. The variety is suitable also for the market. Seed is long, slender, yellow. Lb. 25c; 5 lbs. \$1.15.

Dwarf Horticultural One of the best dwarf beans for the home garden and market and can be used early as a green podded snap bean. The plants are very productive, compact and upright, with large leaves. The mature pods are about five to five and one-half inches in length, broad and thick, curved, with splashes of bright red on a yellowish ground. They become fit for use as green



Bountiful

shelled beans early and in this condition the beans are very large, easily shelled and are about equal to the Lima in quality. Seed large, oval, plump, pale buff, splashed with deep red. Lb. 25c; 5 Lbs. \$1.15.

M. G. Seed Co's. A very hardy and productive green podded sort with strong, vigorous vines. The pods are round, more fleshy, very handsome, much longer, straighter than Red Valentine, the plant a little more spreading, and in season a little later, 6 to 7 inches long. Seed long, large, kidney shaped, variegated drab, purple, and brown. We consider this variety one of the very best for home use or market. See Novelties and Specialties. Lb. 30c; 5 lbs. \$1.40.

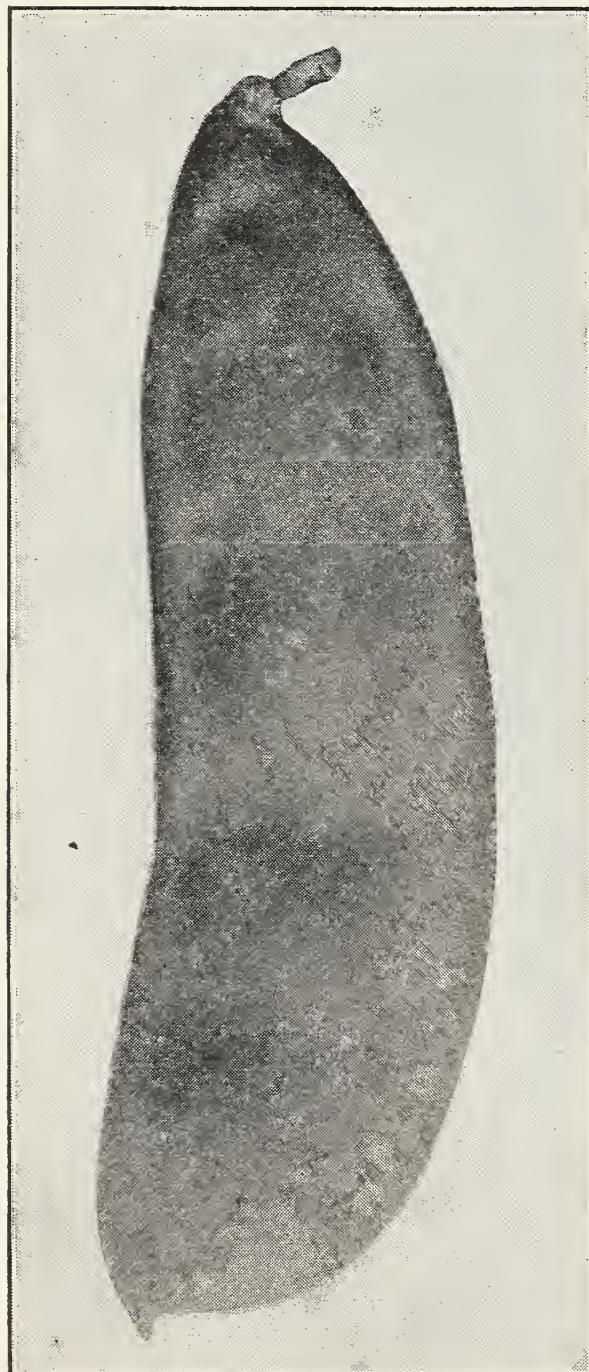
BEANS—DWARF OR BUSH GREEN PODDED SORTS—Continued

Refugee or Thousand to One A standard very productive sort, highly esteemed for late planting for snaps and very extensively used for shipping, canning, and picking. The plants are very large, spreading, exceedingly hardy, with many small, smooth light green leaves. The mature pods are about five and one-fourth inches long, cylindrical, slightly curved, medium green when in condition for use as snaps but as they mature becoming light yellow, sometimes splashed with purple. Seed long, cylindrical, light drab, thickly dotted and splashed with purple. Lb. 25c; 5 lbs. \$1.15.

The following three Dwarf or Bush sorts are also extensively planted as field beans.

Early Marrow Pea or Dwarf White Navy This sort is a sure cropper and not only more prolific than the common white bean but is also of better quality. The plants are large, and spreading, with small, thin leaves and occasional runners, ripening their crop comparatively early. The pods are light green, straight, short about three and three-fourths inches, but usually containing six beans. The beans are small, oval, white, handsome, and of superior quality for use as dry beans. Lb. 15c; 5 lbs. 65c.

Large White Marrow or Mountain The plants of this very prolific sort are large, slender, spreading, with short runners and small leaves. The pods are broad, about five and one-half inches long, medium green, changing to yellow. Seed large, ovoid, clear white, cooking very dry and mealy. Lb. 25c; 5 lbs. \$1.15.



Fordhook Bush Lima

Royal Dwarf Kidney The plants of this late variety, also called White Kidney, are upright, very large, branching, with large, broad leaves. The pods are coarse, dark green and about six inches long. Seed large, white, kidney shaped, slightly flattened and of excellent quality, green or dry. Lb. 25c; 5 lbs. \$1.15

DWARF LIMAS

The dwarf lima class cannot be recommended too highly. The beans can be grown and gathered much more easily than the pole limas as the vines require no support. They can also be grown closer together than those of any pole variety. Dwarf limas are fully equal in quality to pole limas and as a rule are earlier maturing.

Limas require a longer season for maturing than other garden beans. Do not plant till the ground is dry, weather warm, and danger of frost is over. If possible select rich, light soil. Plant in drills two to three feet apart, dropping the beans three to four inches apart and covering one and one-half to two inches deep. If planted in hills, make the hills two to three feet apart one way and two to two and one-half feet the other and plant four to six beans in a hill. Hoe often but only when the leaves are dry.

Bush Lima or Dwarf Sieva (Henderson's) A dwarf form of the Small White Lima, valuable on that account, and because of its extreme earliness, hardiness, and productiveness. The plants are without runners but continue to grow and set pods until stopped by frost. The pods are medium dark green, short, about two and three-fourths inches, flat and contain two to four beans which are of excellent quality either green-shelled or dry. This is much used by canners, as well as for home and market garden use. Seed small, flat, and white with slight tinge of yellow. Lb. 30c; 5 lbs. \$1.40.

Burpee's Improved Bush Lima This is a little the earliest maturing of the large seeded limas. The plants are vigorous and productive. The pods are medium green, very large, about five inches long, thick, and usually contain four beans, which are unusually thick, of largest size and of excellent quality. Seed very large, thick, and usually shows a greenish white tinge which is generally considered an indication of superior quality. One of the best and most extensively used bush limas for the market as well as home garden. Lb. 35c; 5 lbs. \$1.60.

Dwarf Large White Lima A bush form of the true Large White Lima and of equally good quality. The plants are uniformly dwarf but very productive. The pods are medium green, are as broad and very nearly as long as those of the pole variety of Large White Lima and are a little more curved. They contain from three to five very large, flat beans of very good quality for home garden or market. Seed very large, flat, white with slight greenish tinge. Lb. 30c; 5 lbs. \$1.40.

Fordhook Bush Lima An improved dwarf lima of the Kumerle type. It is sometimes called Potato Bush Lima. The plants are vigorous and erect, bearing well above the ground. The pods, which are produced in large clusters, are green, about four and three-fourths inches long and each contains three to five beans which are of excellent quality. This sort is much more productive than Kumerle and matures earlier. Seed large, irregularly oval in shape, very thick, with greenish tinge. This sort is popular for home and market use. Lb. 35c; 5 lbs. \$1.60.

NOTICE

Plan for double crops this year—late crops to follow when the early stuff comes off. Winter cabbage can be put into ground that has borne early peas. Parsnips can be sown up to mid-July. Turnips are a crop for July planting, and there is always a demand for them when the season indicates that other vegetables will be short. Celery, carrots, and cauliflower are suited to meet summer planting.

BEANS—POLE OR RUNNING

Although pole beans require considerable care and labor, they are when properly grown usually of longer bearing period than the dwarf sorts and are generally more productive.

Pole beans are even more sensitive to cold and wet, as well as to drought and hot winds, than the dwarf varieties, but are of superior quality and productiveness. After settled warm weather, set poles four to eight feet long in rows four feet apart and extending north and south, the poles being three feet apart in the row. Let the poles slant slightly toward the north. Set in this way the vines climb better, and the pods are straighter and more easily seen. Around each stake plant five to eight beans one and one-half to two inches deep. When well started thin to four plants, and see that they all climb around the pole in the same way, for they will not grow if tied up in the opposite direction.

Another plan is to plant in rows thickly enough so that there will be one plant to eight or ten inches. Set posts five feet high firmly at each end of the rows and drive stakes made of two by two lumber at intervals of about sixteen feet along the rows. Stretch a wire, size number 10 or 12, between the posts along each row, and fasten it to the tops of the stakes with wire staples. Run a lighter wire or twine along the bottom about six inches from the ground and fasten to the posts and stakes with wire staples. Between these two stretch a wire or twine wherever there is a plant. The vines will run up these until they reach the top wire, when they will care for themselves. Another way is to omit the bottom wire and stick small stakes two to six inches in the soil and fasten to top wire.

Kentucky Wonder Also known as Old Homestead. We believe this variety is the most practically useful of the green podded pole beans suitable for use as snaps. It is an early, very prolific sort, with showy pods which are of most excellent quality. The vines are vigorous, climbing well and very productive, bearing pods in large clusters. The pods are medium light green, very long, often reaching nine or ten inches, curved and twisted, round, and very crisp when young, becoming very irregular as the beans ripen. Seed long, oval, slightly flattened, dun colored. One of the very best pole snap beans for the home garden or market. The quality of our stock is unsurpassed. Lb. 25c; 5 Lbs. \$1.15.

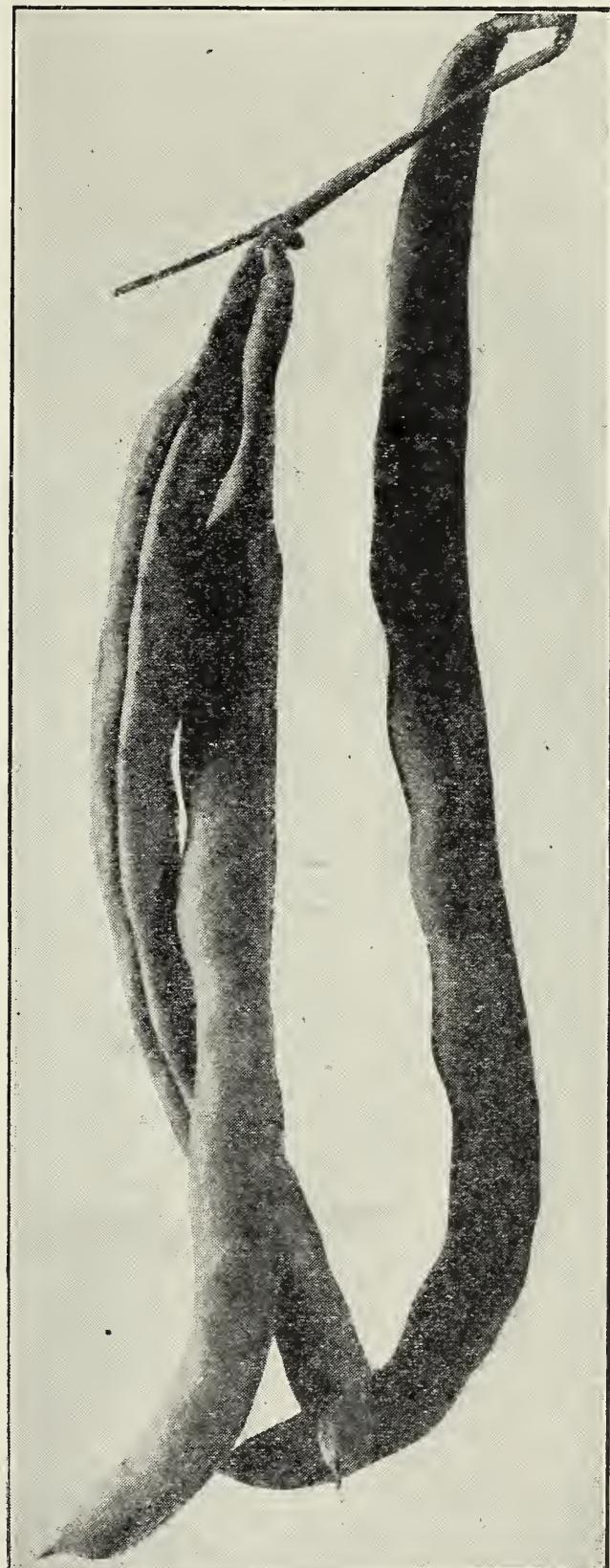
M. G. Seed Co's. Kentucky Wonder An early maturing, green podded, white seeded pole sort desirable for snaps and unsurpassed in its class as green shell beans. The vines are vigorous and very productive. The pods are round, very long, often eight to nine inches, irregular in shape and quite stringless. The beans when shelled green are large, very tender, and white, a very desirable feature when comparison is made with the colored beans of other varieties of this class. Seed medium long, oval, or well rounded, solid white. Many gardeners consider this bean the most desirable pole sort. Lb. 30c; 5 lbs. \$1.40.

London Horticultural or Speckled Cranberry One of the best of the Horticultural varieties as a general purpose late green shell bean for home or market. The vines are moderately vigorous with large, light colored leaves. The pods are medium length, four and one-half to five and one-half inches, pale green when young, becoming as they mature yellowish green striped or splashed with red. The beans are large, ovate, flesh colored, splashed and spotted with wine-red and of the highest quality, either green or dry. Many like this sort better than limas. This well-known horticultural pole bean is sold also as Wren's Egg. Lb. 30c; 5 lbs. \$1.40.

Lazy Wife One of the best of the later green podded pole beans for snaps or green shell use. The medium green pods, borne in large clusters, are five and one-half to six and one-half inches long, broad, thick, fleshy, and entirely stringless. When young they have a rich, buttery flavor which is retained until they are nearly ripe. The dry beans are excellent for winter use. Seed white, medium size, slightly oval, or nearly round. Lb. 35c; 5 Lbs. \$1.40.

Cut Short or Corn Hill A very popular variety in Central and Southern States for planting among corn. Vines not as heavy as the Kentucky Wonder, vigorous, with dark colored leaves. Pods three to three and one-half inches long, straight, flat, fleshy and of good quality. Seeds small, round; light gray, splashed with purplish brown. Lb. 30c; 5 Lbs. \$1.40.

Early Golden Cluster Wax A well-known early and very attractive sort. It is one of the best wax-podded snap pole beans. The vines are large, strong growing, vigorous, and hardy, with large light green, crimped leaves. The pods are six to eight inches long, borne in abundant clusters, each containing from three to six pods varying in color from golden yellow to creamy white. The pods are very broad, thick, and fleshy. They are of very good quality and stay in condition for use a long time. Seed medium sized, flattened, oval, dull white. Lb. 35c; 5 lbs. \$1.60.



Market Gardeners' White Kentucky Wonder

POLE LIMAS

Of all the pole beans, limas are considered to have the greatest economic value. The culture is the same as for other pole beans except that being more tender, the seed is usually planted one to two weeks later. In firm soils it will be found of advantage to place the beans on edge with the eye down as when planted in this manner they germinate and come up more readily.

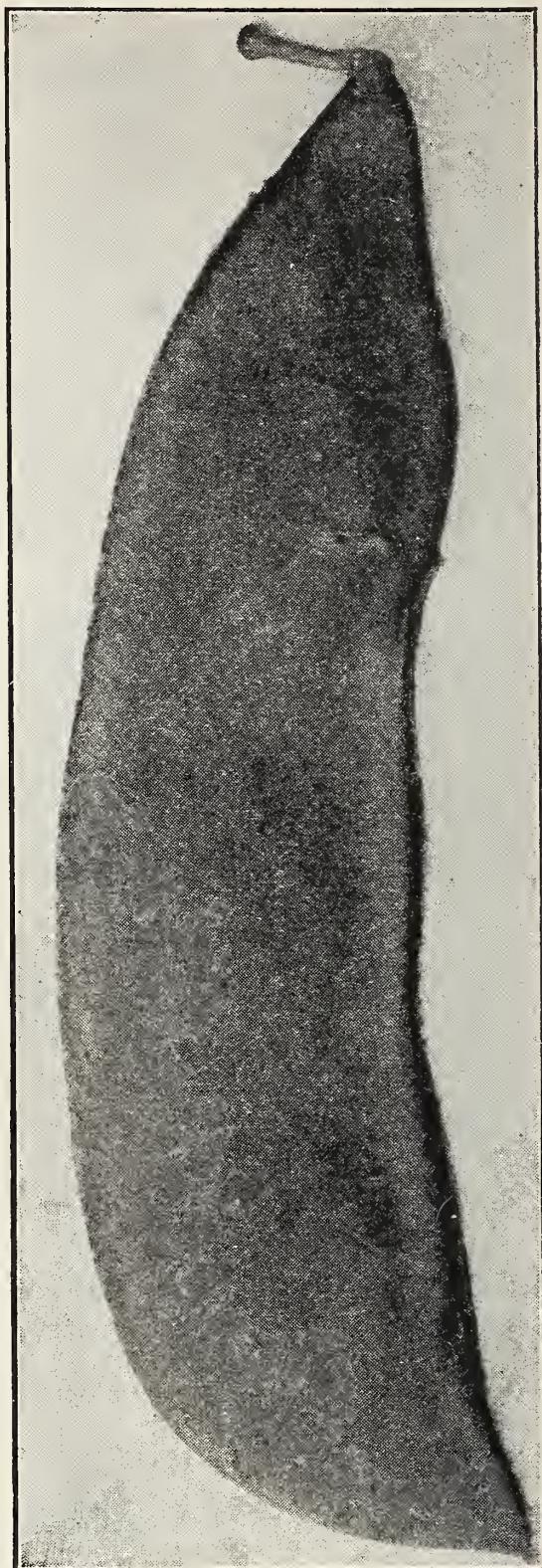
M. G. Seed Co's. Early Lima In earliness, ease of shelling, size, beauty, and quality of the green beans, this variety leads all other early limas for either the home garden or market. The vines are vigorous and remarkably productive. The pods are medium green, large, flat, about five inches long, moderately curved. The green shell beans are very large, very tender, and of finest quality. Seed ovoid, flat with slight greenish tinge. Lb. 30c; 5 Lbs. \$1.40.

M. G. Seed Co's. Early Leviathan Of superior quality. Wonderfully productive. The ideal Pole Lima. Earliness is often obtained at the sacrifice of other valuable features, but in this variety we claim superiority, not only in this respect, but in size of Bean and pod and enormous productiveness. Lb. 35c; 5 Lbs. \$1.60.

King of the Garden Lima The vines of this standard pole lima are very vigorous and productive. The pods are medium dark green, very large, five to six inches long, broad, flat, filled with four or five very large beans of finest quality. On account of its large pods it is a favorite with market gardeners. It will come into bearing earlier and make larger pods if not more than two vines are left to grow on a pole. Seed very large, ovoid, flat, with slight greenish tinge. Lb. 35c; 5 Lbs. \$1.60.

Carpinteria Lima A most desirable pole lima for the home and market garden. The vines are strong growing and vigorous, producing an abundance of fine, large, medium green pods, five to six inches long, usually closely filled with four beans of largest size, much thicker than the average pole lima. The color is distinctive in having a decided greenish tint, an indication of very finest quality. When cooked the beans are very thin skinned, extremely tender, and of finest flavor. Seed very large, exceptionally thick, retaining the distinctly green tinge. Lb. 35c; 5 Lbs. \$1.60.

Gigantic Lima This new variety first offered by us last year is the largest podded variety of any lima yet introduced. The Gigantic Pods are eight to twelve inches long, broad, dark green color and contain from six to eight beans of the best quality. Vines vigorous strong growing, exceptionally productive and come into bearing medium early. Seed large, rather flat, medium green. Consider this the most productive and best sort for market or home use. Lb. 50c; 5 Lbs. \$2.25.

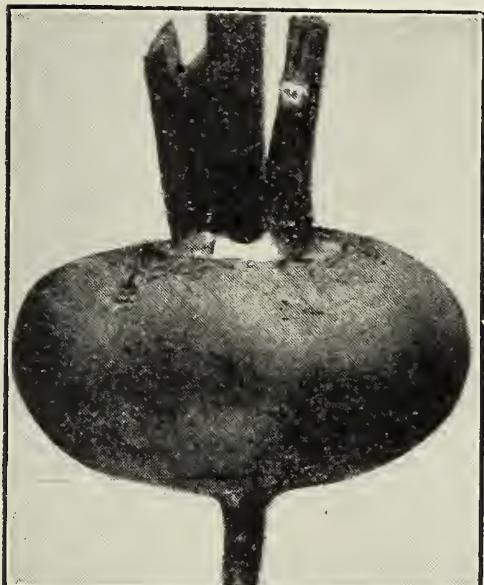


Gigantic Pole Lima

Here are some practical suggestions from the United States Food Administration:

1. Do not can vegetables which can be matured and form a more nutritious food mature than canned green. Lima beans and others are examples of this class.
2. Root crops, like beets and carrots, should be stored, instead of canned.
3. Some products, like tomatoes, can be concentrated in purees and pastes and thus take up less space.
4. Fruit pastes, which are concentrated products made of fruit pulp, can also be considered. These are of thicker consistency than jams and fruit butters and may be dried and packed in layers, thus being economical and convenient.
5. Fruit juices for jelly stock and other purposes can be extracted, bottled in various containers, sterilized, and sealed. Larger quantities can thus be economically saved than when finished products demanding more time, fuel, and sugar are made in the summer season. If the jelly is made only as needed, fewer glasses will be required since these containers will be used again and again.
6. Valuable fruit syrups which can be substituted for cane and sorghum syrups can be made from juice of apples, scuppernong grapes, and other fruits. When fuel is plentiful for the boiling processes involved, these are economical because they do not require the use of any sugar. These syrups can also be used instead of sugar when making jams and marmalades of the same fruits.

BEET



Crosby's Egyptian Blood Turnip

not so well suited as Extra Early Egyptian Blood Turnip for forcing in hotbeds or for transplanting. Our stock is exceptionally uniform in shape and color, and is earlier than the older strains which are similar in shape but show the purplish red color. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 35c.

Detroit Dark Red We believe this is the best beet for the market and home garden, and on account of its uniformly deep rich color the most desirable for canning. The tops are small and upright in growth. The leaves are dark green, shaded with red. The roots are medium sized, globular or nearly round, very smooth and of dark blood red color. The flesh is deep vermillion-red, zoned with a lighter shade of the same color. The variety is very desirable for bunching. Careful comparisons with all prominent varieties on the market prove that Detroit Dark Red is the most uniform in shape and size and the most attractive in color. It is unsurpassed in quality. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 35c.

Early Blood Turnip (Improved) An extra selected stock of Blood Turnip, having larger, coarser tops and root than Detroit Dark Red and requiring a longer time to mature. The roots are dark red and nearly round or slightly flattened. The flesh is deep red, zoned with lighter shade, sweet, crisp, and tender. This is an excellent market and home garden sort for summer and autumn use. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 35c.

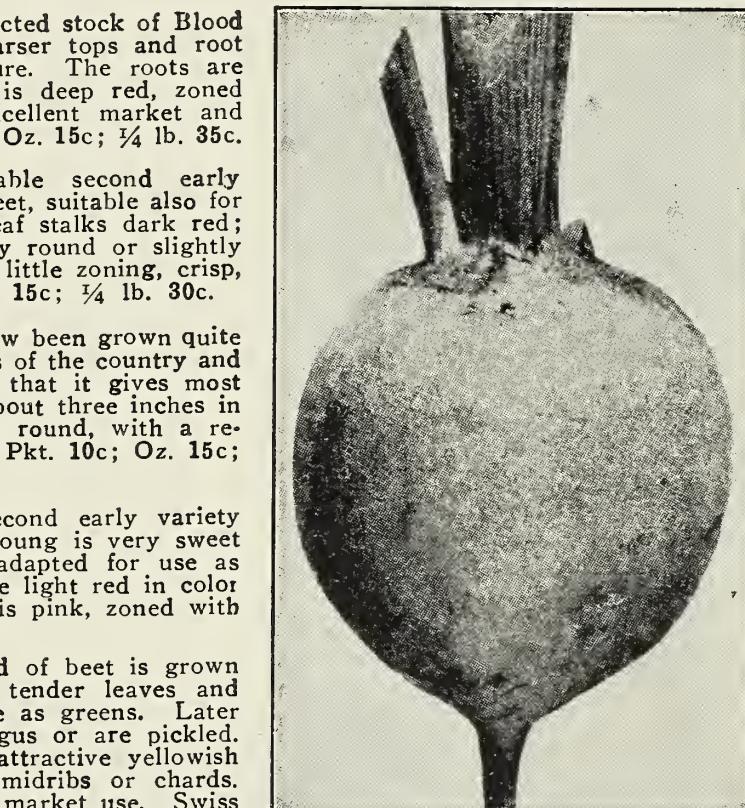
Edmund's Early Blood Turnip A desirable second early market beet, suitable also for the home garden. Tops short, rather spreading; ribs and leaf stalks dark red; blade of leaf bright green, often with wavy edge, roots nearly round or slightly flattened. Exterior color dark red, interior purplish red with little zoning, crisp, tender, sweet, and an excellent keeper. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 30c.

Crimson Globe Beet This splendid variety has now been grown quite extensively in many sections of the country and the many good reports received from old customers indicate that it gives most thorough satisfaction. The root is of medium size generally about three inches in diameter, very handsome in shape, being a little deeper than round, with a remarkably smooth surface. It has a very small tap-root. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 35c.

Early Turnip Bassano or Sugar This second early variety when young is very sweet and tender. It is excellent for the table, being especially adapted for use as greens. The tops are large. The roots attain a large size, are light red in color and flattened turnip-shaped with rather heavy tap. The flesh is pink, zoned with creamy white. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 30c.

Swiss Chard (Sea Kale or Spinach Beet) This kind of beet is grown exclusively for the numerous, fleshy, tender leaves and leaf stalks, which are superior to those of other beets for use as greens. Later in the season the wax-like leaf stems are cooked like asparagus or are pickled. This variety we offer has large, broad, undulated leaves of attractive yellowish green color, and remarkably large, broad white stalks and midribs or chards. It is well worthy of a place in the home garden as well as for market use. Swiss Chard is sometimes called Leaf Beet and Silver Beet. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 35c.

M. G. Seed Co's. Late Blood A standard late variety of very good quality which keeps well through the winter. The roots are smooth, with few or no side roots but a good tap root. The exterior color of the roots is very dark purple, almost black. Flesh is dark red, tender, and sweet. It is an excellent sort for pickles and holds its top well in the hottest weather. Best late sort for market gardeners. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 40c.



Detroit Dark Red

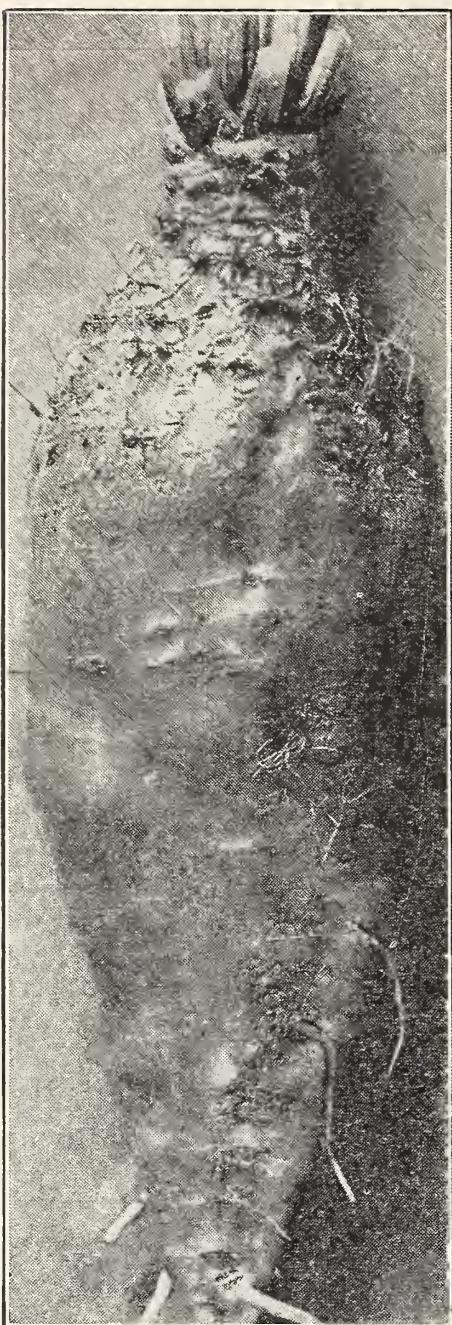
M. G. Seed Co's. Sugar A medium early, pink bright turnip shaped beet of very good quality for market and home garden use. The tops are medium sized, with bright green leaves. The roots are thick and slightly top shaped with a medium sized tap. The flesh is light pink, zoned almost white; crisp and tender. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 40c.

NOTICE—Cooking Recipe for Swiss Chard

PLAIN BOILED CHARD—Wash and cut the stalks 1 inch wide; put in sauce-pan and cover with boiling water; boil 30 minutes, or until tender; drain; dust with salt, 1 teaspoon to the quart of chard; garnish with hard-boiled egg. Serve with either lemon juice or vinegar. May also be boiled with smoked bacon.

CREAMED CHARD—Strip the green from the ribs; boil the green alone; drain and cream same as spinach. Cut the ribs in 3-inch pieces; put in saucepan; cover with boiling water and boil 35 minutes, or until tender; drain; dust with salt; pile in center of shallow dish and pour the creamed green around. Garnish with 1 hard-boiled egg chopped fine.

If fond of greens, try Swiss Chard.



Improved Mammoth Long Red
Mangel Wurzel

SUGAR BEET FOR SUGAR MAKING

The Sugar Beets are desirable not only for sugar making but are valuable for stock feeding and when small may be used for the table. The best soil is a rich, friable sandy, or clayey loam. Rich, mucky soils will often give an immense yield of roots which, though excellent for feed, are of little value for sugar making.

Plant early in spring in drills two to two and one-half feet apart, and about one inch apart in the row, covering with about one and one-half inches of fine soil, firmly pressed down. Cultivate frequently. When about three inches high begin thinning and continue at intervals until the roots stand about ten inches apart.

Vilmorin's Improved One of the richest sorts in sugar content. It will do better on new lands than any other, suffers less from an excess of nitrogen and will keep the best. The tops are of medium size, with smooth, bright green leaves. The roots are of medium size, white flesh, and often yield from ten to sixteen tons per acre. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 30c.

Klein Wanzleben The roots are a little larger than Vilmorin's Improved and a little harder and easier grown. The tops are rather large and the leaves slightly waved. This sort often yields under careful culture from twelve to eighteen tons per acre. It is probably the best sort for the experimenter to use. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 30c.

MANGEL WURZEL

The culture of the Mangel Wurzel, also called Mangel, Cattle Beet and Field Beet, is much the same as for Sugar Beets. The Mangels may be grown in almost any soil, but deep loams are necessary for heavy yields of the long varieties.

M. G. Seed Co's. Improved The roots are very large, uniformly straight and well formed and comparatively thicker than the common sort. The flesh is white tinged with rose. This strain under careful culture is enormously productive. Our stock will produce the largest and finest roots which can be grown for feeding stock and is vastly superior to many strains offered under other names, such as Norbitan Giant, Colossal, Monarch, etc. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 25c.

Golden Tankard The tops are comparatively small, with the leaf stalks and veins distinctly tinged with yellow. The neck is small. The roots are large, ovoid, but with bottom usually of larger diameter than top, light gray above ground, deep orange below. The flesh is yellow, zoned with white. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 25c.

BROCCOLI The heads resemble somewhat a coarse cauliflower and the culture is the same in all essentials as for that vegetable. Broccoli is well adapted only to those sections where the season is long, cool, and rather moist. One of the most valuable features is that it withstands greater extremes of temperature than cauliflower.

Early Large White French This is considered the best sort for most sections. The plants are very hardy, vigorous, and easily grown. The heads are white, compact, hard, and of good quality. Giant Pkt. 10c; Oz. 80c; $\frac{1}{4}$ lb. \$2.00.

BRUSSELS SPROUTS

This vegetable is used in the fall and early winter and by some considered more tender and delicious than any cabbage. The plant resembles the cabbage, the edible part being the numerous very small heads or sprouts an inch or two in diameter formed on the stalk at each leaf joint. The culture is the same in all essentials as for cabbage, except the leaves should be broken down in the fall to give the little heads more room to grow.

Improved Half Dwarf

This favorite Paris market sort is probably the most useful variety. The plants are half dwarf, growing about one and one-half to two and one-half feet high. They are very hardy and produce compact, rounded, grayish green sprouts of good size and fine quality.

Giant Pkt. 10c; Oz. 30c; $\frac{1}{4}$ lb. 90c.

CABBAGE

For many years cabbage seed has been a leading specialty with us. Our cabbage seeds are all grown from approved stock seeds. We believe there is no seed that is more reliable, nor any that can be more implicitly depended upon to give planters uniformly satisfactory results.

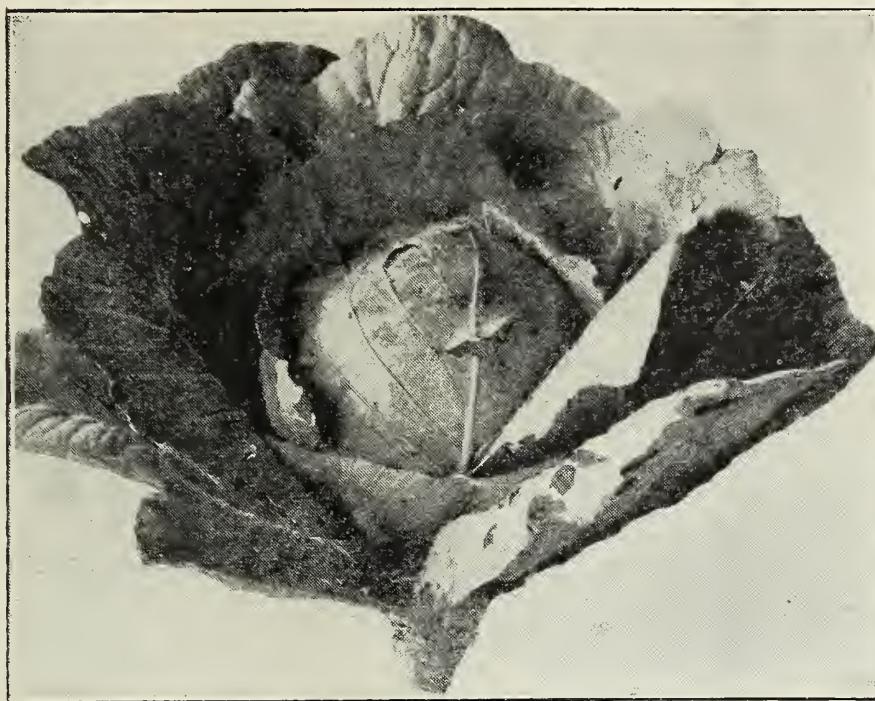
The requisites for complete success with cabbage are: First, good seed. In this crop the quality of the seed used is of the greatest importance. No satisfactory results can possibly be obtained when poor seed is planted. Second, rich, well prepared ground. A heavy, moist, and rich loam is most suitable. Third, frequent and thorough cultivation. The ground should be highly manured and worked deep. Cabbage is grown all over the country and specific directions regarding the time and methods of planting applicable to all localities cannot be given. In general, north of the 40th parallel the early sorts should be sown very early in hotbeds, hardened off by gradually exposing them to the night air and transplanted as early as the ground is in good condition, setting eighteen to thirty-six inches apart, according to size of variety. South of the 40th parallel sow about the middle of September, or later according to latitude, transplanting into cold-frames if necessary to keep through winter and setting in open ground as early as possible in the spring.

The late autumn and winter varieties may be sown from the middle to the last of spring and transplanted when four to six inches high. If the weather and soil are dry the late sowings should be shaded and watered in order to hasten germination, but it is important that the plants should not be shaded or crowded in the seed-bed, or they will run up weak and slender and will not endure transplanting well. Cabbage should be hoed every week and the ground stirred as they advance in growth, drawing up a little earth to the plants each time until they begin to head, when they should be thoroughly cultivated and left to mature. Loosening the roots will sometimes retard the bursting of full grown heads.

NOTICE—Prices on Cabbage Seed include Postage.

Are you utilizing all that ground of yours?

CABBAGE—Continued



Charleston or Large Wakefield

Charleston or Large Wakefield A strain in which the plant is larger and a little later than Early Jersey Wakefield, the head being fully as solid but less pointed and considerably larger. The leaves are rather large, smooth, and comparatively thick. Its exceeding hardiness, earliness, and size of head have made it with market gardeners and shippers a popular sort to follow Jersey Wakefield. The plants are medium sized, very vigorous, slightly spreading. The heads are blunt-pointed but very broad at the base. Our stock can be depended upon to produce uniformly fine, marketable heads. Giant Pkt. 10c; Oz. 35c; $\frac{1}{4}$ lb. \$1.00.

Henderson's Early Summer An excellent, second early, somewhat flattened cabbage, valuable for the home garden and takes well on the market. It is also well adapted for kraut. The plants are vigorous and strong growing but compact, with numerous but not large, rather spreading outer leaves which are somewhat frilled; stem rather short. The heads are of medium size, round, somewhat flattened and keep longer without bursting than most early sorts. Giant Pkt. 10c; Oz. 30c; $\frac{1}{4}$ lb. 90c.

Copenhagen Market The earliest large round-headed cabbage yet introduced. The heads are exceptionally large for so early a variety, very solid and of most excellent quality. The plants are vigorous but compact, with short stem and few outer leaves which are of rather upright growth. The leaves are medium light green, nearly round, comparatively thick and smooth. This is a most excellent sort, both for the home garden and market gardening trade. Our strain produces the characteristic large, round heads that for solidity and excellent quality make this variety so valuable. Giant Pkt. 10c; Oz. 35c; $\frac{1}{4}$ lb. \$1.25.

All Head Early This excellent second early market sort produces heads that are very large for so early a cabbage and of very good quality. It is desirable not only for general spring planting but by planting late it can be used as a fall and early winter cabbage. The variety is well adapted for kraut. The plants are compact, with few outer leaves which are comparatively smooth and rather thick; stem short. The heads are solid and flat but very deep. Our strain is of special value. Giant Pkt. 10c; Oz. 35c; $\frac{1}{4}$ lb. \$1.00.

All Seasons A very desirable large cabbage of intermediate season, adapted for autumn as well as late summer use, and considered one of the most desirable for kraut. The plants are very vigorous and sure heading, with few outer leaves which are large and fairly smooth or slightly waved. The heads are nearly round or somewhat flattened, very solid and of excellent quality. It is remarkable for its ability to stand the hot sun and dry weather, remaining an exceptionally long time in condition for use. Sometimes sold as Vandergaw. Giant Pkt. 10c; Oz. 35c; $\frac{1}{4}$ lb. \$1.00.

Early Dwarf Ulm Savoy An early Savoy cabbage of small size and most excellent flavor. The plants are rather small but vigorous. The outer leaves are medium sized, much crumpled, thick, fleshy, deep green. Giant Pkt. 10c; Oz. 35c; $\frac{1}{4}$ lb. \$1.00.

To preserve cabbages during the winter, pull them on a dry day and turn them over on the heads a few hours to drain. Set them out in a cool cellar, or bury them in long trenches in a dry situation, covering.

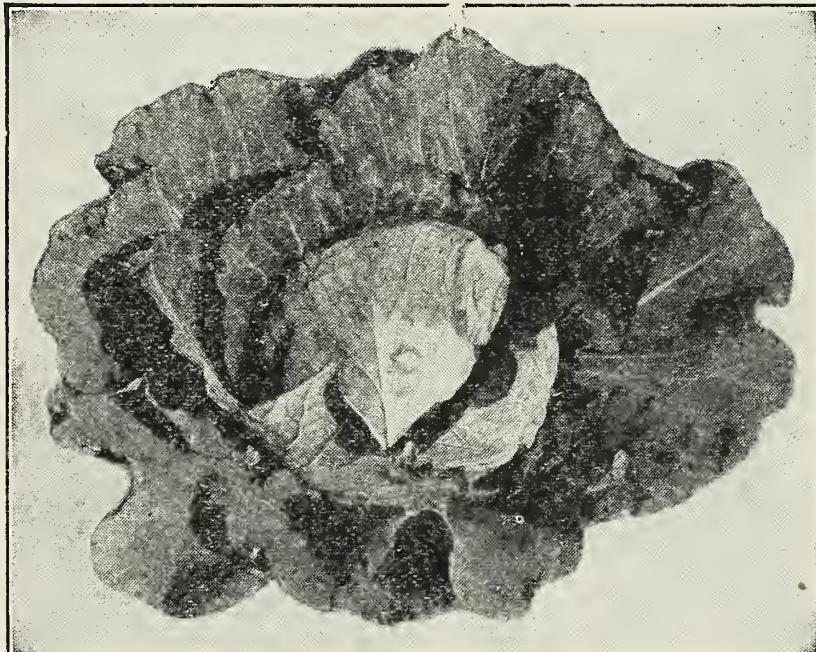
A great many of the varieties of cabbages are simply strains rather than distinct sorts and are really the same as some older and better known kinds. We are confident that every good quality can be found in a greater degree in the varieties we offer than in any other kinds.

Early Jersey Wakefield This most excellent variety is the earliest and surest heading of first early cabbages for the market and home garden. Most gardeners depend upon it for the bulk of their extra early crop. The plants are exceedingly hardy, not only in resisting cold but other unfavorable conditions. They are compact and erect or very slightly spreading, with few outer leaves, which are smooth, thick, nearly oval, and deep green. The stem is short. The heads are of medium size, very solid, uniformly pointed and of excellent quality. Our stock, grown and selected with great care, is of first quality. Giant Pkt. 10c; Oz. 35c; $\frac{1}{4}$ lb. \$1.00.

Chinese Cabbage (PE-TSAI) The improved strain we offer resembles when well grown Cos Lettuce rather than Cabbage. It is often called Celery Cabbage on the market. The leaves of the plant when young are crimped at the edges, of light green color and appear like smooth leaved mustard but with much broader and heavier midribs. The plant as it matures becomes more upright and forms heads much like Cos Lettuce. The inner leaves blanch an attractive light yellow or creamy white with very white midribs. It is of distinctive flavor, very mild and pleasant. It is served as a salad like lettuce or cooked like asparagus. The early plantings of Pe-Tsai run quickly to seed in hot weather. Sow in drills fourteen to twenty inches apart and thin seedlings two or three times; or if grown for the market start in boxes and transplant like cabbage. Giant Pkt. 10c; Oz. 30c; $\frac{1}{4}$ lb. 90c.

Glory of Enkhuizen This second early variety is very sure heading and of excellent quality. The plants are of vigorous growth, with large, rather spreading outer leaves which are noticeably curved and frilled. The heads are globular or very nearly round, very solid, and of large size for so early a variety. Giant Pkt. 10c; Oz. 35c; $\frac{1}{4}$ lb. \$1.25.

Early Dwarf Flat Dutch The plants of this valuable second early sort are short stemmed, compact and upright with comparatively few and short leaves. The heads are large for size of plant, are nearly round or somewhat flattened, close, firm, and very solid. They mature a little earlier than Early Summer. This variety is extensively used for home garden and market. Giant Pkt. 10c; Oz. 30c; $\frac{1}{4}$ lb. \$1.00.



Market Gardeners Copenhagen Market

CABBAGE—Continued

M. G. Seed Co's. Premium Flat Dutch This strain is the result of much care on our part to develop and maintain the good qualities which have made this sort so popular. The plants are very hardy, comparatively slow growing but very sure heading; stem rather short. The plants are exceptionally vigorous, with very large, broad, spreading outer leaves which are moderately smooth or very slightly waved and slightly blistered. The heads are uniformly large, often very large, flat but deep, distinctly flattened on the top, solid, and of excellent quality. This is considered by many as the standard, very large late cabbage for home garden and market. It is an excellent keeper. Giant Pkt. 10c; Oz. 35c; $\frac{1}{4}$ lb. \$1.00.

M. G. Seed Co's. Premium Late Drumhead We recommend this sort for markets that require a very large and deep head. It is also much used as a main crop or late sort for the home garden. The plants are large, fairly compact but distinctly vigorous, with medium length stem and large outer leaves, which are upright in growth and moderately waved. The heads are uniformly large, very large when grown in good, rich soil, are flattened on top but very deep, compact, and of excellent quality. The heads can be kept in good condition until late in spring. Giant Pkt. 10c; Oz. 35c; $\frac{1}{4}$ lb. \$1.00.

Surehead One of the most reliable main crop or late cabbages for northern latitudes, being very hardy and exceptionally sure heading. In some sections this is used largely as a late home market cabbage and for shipping. The plants are rather upright, with many outer leaves which are waved, thin edged, crimped, and distinctly frilled; stem rather short. The heads are large and broad, thick somewhat flattened, compact, very solid, and of excellent quality. Giant Pkt. 10c; Oz. 30c; $\frac{1}{4}$ lb. \$1.00.

Mammoth Rock Red The largest and surest heading red cabbage, much better than stock offered as Red Drumhead. The plants are large and vigorous with medium length stem and spreading outer leaves which are dark green with red veining. The heads are late maturing, large, round, very solid and of very attractive deep red color. The variety is much used for cold slaw and pickling. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ lb. \$1.25.

Improved American Savoy The best of the main crop and late Savoys for home use or markets. The plants are vigorous, of medium size, with rather short stem, and are very sure heading. The outer leaves are medium large, thick, fleshy, and densely and uniformly crumpled. The heads are large, nearly round, fairly solid, sweet, and tender. The quality is superior to sorts that have been offered as Perfection Green Globe or Drumhead Savoy. Giant Pkt. 10c; Oz. 35c; $\frac{1}{4}$ lb. \$1.00.

CARROT



Chantenay

The carrot is one of the most wholesome and nutritious of our garden vegetables and it should be planted in every garden as well as among the field crops. For horses and as winter feed for milch cows, the carrot cannot be surpassed and it should be more largely grown by farmers for this purpose.

While a sandy loam made rich by manuring the previous year is the best soil for the carrot, any good land is thoroughly and deeply worked will produce satisfactory crops. It is advisable to sow as early in the spring as the ground is fit to work, though good crops may be grown from late sowings. For table use sow the smaller kinds early in rows sixteen to eighteen inches apart. For field culture sow in drills eighteen to twenty-four inches apart, using from one and one-half to three pounds of seed to the acre. Cover one-half to one inch deep and see to it that the soil is pressed firmly above the seed. As soon as the plants appear, use the cultivator or wheel hoe. Thin two to six inches apart in the row, according to the size of the variety. Notice—Prices on carrot seeds include Postage.

Market Gardeners' Forcing The tops of this early half long frame sort are very small and seed may be sown very thickly as the variety is well adapted for forcing. The roots are of medium size, slender, cylindrical with remarkably small neck, handsome deep orange color, tender throughout and of the best quality. They are usually four and one-half to five inches in length, but sometimes grow considerably longer. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 50c.

Half Long Scarlet Nantes This extensively used, **Stump Rooted** half long early variety has small tops and is excellent for the market or home garden. The roots are cylindrical, smooth and of a bright orange color. The flesh is orange, becoming yellow in center but very tender throughout. This variety is of the finest quality and is one of the most symmetrical and handsome of the medium sized sorts. The mature roots are usually five to six inches long. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 35c.

Chantenay A most excellent, medium early, half long variety. It is one of the best in quality for the market and home garden, while its great productiveness and the ease with which it can be harvested make it desirable as a field sort. The tops are medium sized with small neck. The mature roots are thick, five to five and one-half to six inches in length, uniformly half long or stump rooted but tapering slightly, smooth, deep orange-red in color. The flesh is very crisp and tender. Although a medium early sort the roots are suitable for use nearly as early as any. The variety is extensively used for bunching. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 35c.

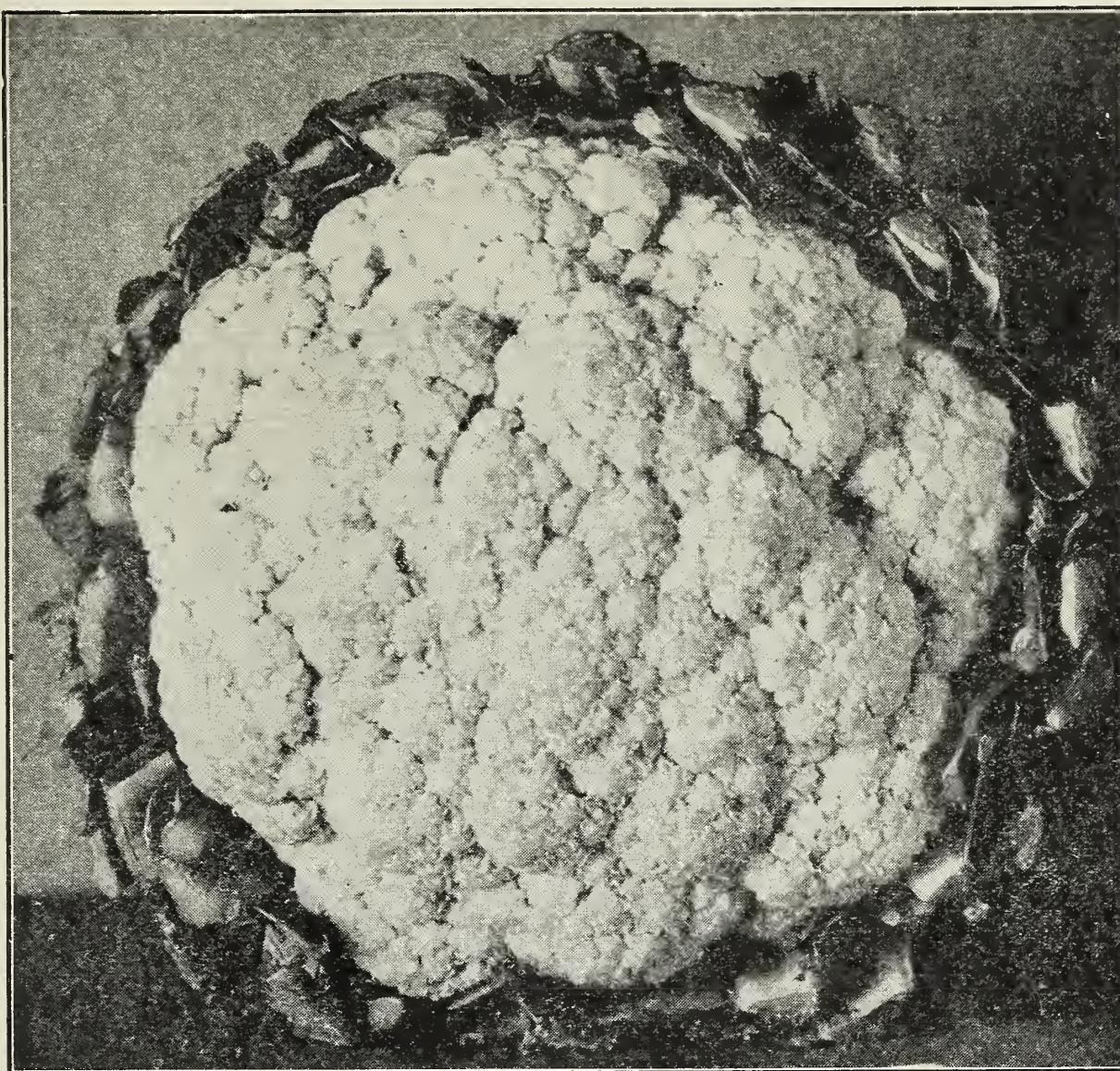


Market Gardeners' Forcing

Guerande or Ox Heart Especially desirable for soil so hard and stiff that longer rooted sorts would not thrive in it. The tops are comparatively small. The mature roots are four and one-half to five inches long, very thick, ending abruptly in a small tap root. The flesh is bright orange, fine grained and sweet. When young the roots are desirable for table use as a medium early carrot and when mature they are equally good for stock feeding. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 30c.

Danvers A half long orange carrot, grown largely on account of its great productiveness and adaptability to all classes of soil. It is a desirable second early carrot for the home garden and is also suitable for field culture. The tops are medium size. The mature roots are of medium length, six to eight inches long, tapering uniformly to a blunt point. The flesh is deep orange, tender, and of good quality. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 35c.

CAULIFLOWER



Erfurt Cauliflower

Notice—Prices on Cauliflower Seeds include postage.

Market Gardeners Unquestionably the earliest maturing strain of the true **Greenhouse or Forcing** short leaved Snowball type of cauliflower. It is admirably adapted for forcing or wintering over for early crop and is the most popular sort for these purposes, also one of the best sorts for late summer and fall crop. A most desirable sort for the home garden. The plants are compact, with few short, outside leaves and are well suited for close planting. The heads are of medium to large size, solid, compact, round, very white, and curd-like and are developed earlier than those of any other sort. We are in position to supply the most critical trade with seed which can be depended upon as the very best. Giant Pkt. 10c; Oz. \$4.00.

Early Snowball An extremely early variety producing magnificent white heads of finest quality. For market gardeners' use it is one of the most profitable. Excellent for family use. Giant Pkt. 10c; Oz. \$3.00.

Early Dwarf Erfurt A remarkably sure heading early Cauliflower. It is of dwarf habit with short outside leaves and is similar in all respects to Early Snowball, and nearly as early. The heads when ready for market are of medium to large size. The curd is white, exceptionally deep and of finest quality. It will give excellent results either in the home garden or for market use and is superior to most seed sold at higher prices. Where extreme earliness is not the greatest consideration we recommend this strain after having proven it far superior to most stocks offered as Snowball. Giant Pkt. 10c; Oz. \$3.50.

Veitch's Autumn Giant A distinct and valuable late variety with long stems and dark green leaves. The heads are very large, white, firm, and compact and being well protected by foliage, remain a long time fit for use. The plants should be started and transplanted early in the season to insure their full development. Giant Pkt. 10c; Oz. \$1.25.

CELERY

Sow the seed (which is slow to germinate) from about February 20 to April 20 in shallow boxes indoors or sow in a finely prepared seed bed out of doors in April in straight rows so that the small plants may be kept free from weeds. See to it that the seed is not covered too deep and that the bed is kept moist, almost wet, until the seeds germinate, as plenty of moisture is essential to get a satisfactory growth. The seed will not germinate well if planted in a hotbed or where subjected to a temperature above 60° F. When the plants are one to two inches high, thin out and transplant so that they may stand two or three inches apart each way. When they are four inches high, cut off the tops, which will cause the plants to grow stocky. Plants are usually set out when about five inches high. It is well to cut off the lower half of the roots before transplanting.

The crop is usually made to succeed some earlier one, but in order to grow good celery the soil must be made as rich as possible, the essentials to success being very rich soil and plenty of water. If good plants are used, they may be set out as late as the middle of August, but the best results are usually obtained from setting about the middle of June or first of July. The most desirable time will depend upon local climate and is that which will bring the plants to maturity during cool, moist weather. In setting, prepare broad trenches about six inches deep and four to six feet apart, in which the plants should be set six inches apart, cutting off the outer leaves and pressing the soil firmly about the roots. The compacting of the soil excludes the air from the roots until new rootlets are started. The only care now necessary for about six weeks is to keep the plants free from weeds by frequent cultivation.

Special Notice—Read on first page.

Cauliflower, although one of the most delicious vegetables, is but little grown except by professional gardeners because of the erroneous notion that it is so difficult to grow that only skilled gardeners can produce it. Any one will be reasonably sure of success with this most desirable vegetable if the cultural directions given below are carefully followed.

Sow in March or early in April in hotbed and transplant to cold-frame when sufficiently large to handle. As soon as danger of hard freezing is over set in the open ground in rows two and one-half feet apart and eighteen inches apart in the row. The plants will endure a light frost. The soil for cauliflower should be like that for cabbage, but it is better if made richer than is ordinarily used for that crop. Plenty of good manure must be well incorporated with soil and the latter be brought into the highest state of tilth. No application, however, can be more necessary or more useful than that of cultivator and hoe.

All the cauliflower seed we offer is produced by the most experienced growers in Europe, in such localities as are best suited to its proper development and the greatest care is taken to save seed from perfectly developed plants only.

CELER Y—Continued

When the plants are nearly full grown they should be "handled," which is done by gathering the leaves together while the earth is drawn about the plant to one-third its height, taking care that none of it falls between the leaves, as it would be likely to cause them to rust or rot. After a few days draw more earth about them and repeat the process every few days until only the tops of the leaves are visible. Or it may be blanched by pressing the leaves together with two wide boards held in place by stakes or by wire hooks at the top. This is the method commonly used by market gardeners and the rows need to be only about three feet apart, but celery so blanched is not so good in quality and is more likely to become pithy than that blanched with earth. Care should be taken that the plants are not disturbed while they are wet or the ground is damp; to do so increases the liability to injury from rust.

A part of the crop may be simply "handled" and then at the approach of severe freezing weather taken up and set out compactly in a dark cellar or an unused cold-frame, where the temperature can be kept just above the freezing point and it will then gradually blanch so that it may be used throughout the winter. Should the plants begin to wilt, water the roots without wetting the stalks or leaves and they will revive again.

Celery is sometimes grown by what is termed the new process which consists in making a spot as rich as possible and there setting the plants six to eight inches apart each way. If the soil is very rich and there is an abundance of water, the plants will blanch each other and the product will be very white and handsome, but we think it is inferior in quality to that grown by the old method. Notice—Prices on Celery Seed include postage.

M. G. Seed Co's. Golden Yellow Self Blanching This is the standard celery for early use. It is in condition as early in the fall as any and we have yet to find a strain better in quality and appearance than our stock of Golden Yellow Self Blanching. Critical gardeners generally depend upon our stock to produce their finest celery. It is excellent for the home garden. The plants are of medium size, compact and stocky, with yellowish green foliage. As they mature the inner stems and leaves turn beautiful golden yellow so that blanching is effected at a minimum expenditure of time and labor. Its handsome color, crispness, tenderness, freedom from stringiness, and fine nutty flavor have established it as a superior early sort. Giant Pkt. 15c; Oz. 75c; $\frac{1}{4}$ lb. \$2.50.

White Plume A handsome, very early variety. The leaves are light, bright green at base, shading nearly white at tips. As the plants mature, the inner stems and leaves turn white and require to be earthed up but a short time before they are in condition for use. Although very attractive, we do not think that it compares favorably with the Golden Yellow Self Blanching either in flavor or solidity, or that it will remain in condition for use as long. White Plume has been much in demand as a market sort on account of its very attractive appearance and requiring a very short time for blanching. It is suitable also for the home garden. Giant Pkt. 10c; Oz. 35c; $\frac{1}{4}$ lb. \$1.00.

Easy Blanching This is a green leaved variety developed from the Golden Yellow Self Blanching and we recommend it as being of the very best quality for fall and early winter use for the home garden and market. It blanches to a beautiful yellowish-white color, is very solid and crisp, and of a fine nutty flavor. The stalks are of medium height, very thick, the upper portion nearly round but broadening and flattening toward the base. With high culture this variety will give splendid satisfaction as a growing sort for fall and winter use. In the south it is prized more than almost any other kind. Giant Pkt. 10c; Oz. 75c; $\frac{1}{4}$ lb. \$2.50.

Winter Reliance This is considered the most attractive in color and the best in quality of any of the late keeping sorts. The plants are moderately dwarf, compact, with solid heart and habit of growth very well adapted for late keeping. When ready for the late market the color is a very attractive light creamy yellow. The quality is unsurpassed by any variety of its class and is decidedly superior to most of the older, long keeping sorts. Giant Pkt. 10c; Oz. 35c; $\frac{1}{4}$ lb. \$1.00.

Celeriac OR TURNIP ROOTED CELERY In this kind of celery, the roots have been developed by cultivation and not the leaf-stalks. The roots, which are the edible portion, keep well for winter use and are excellent for soups and stews. They are also cooked and sliced as a salad.

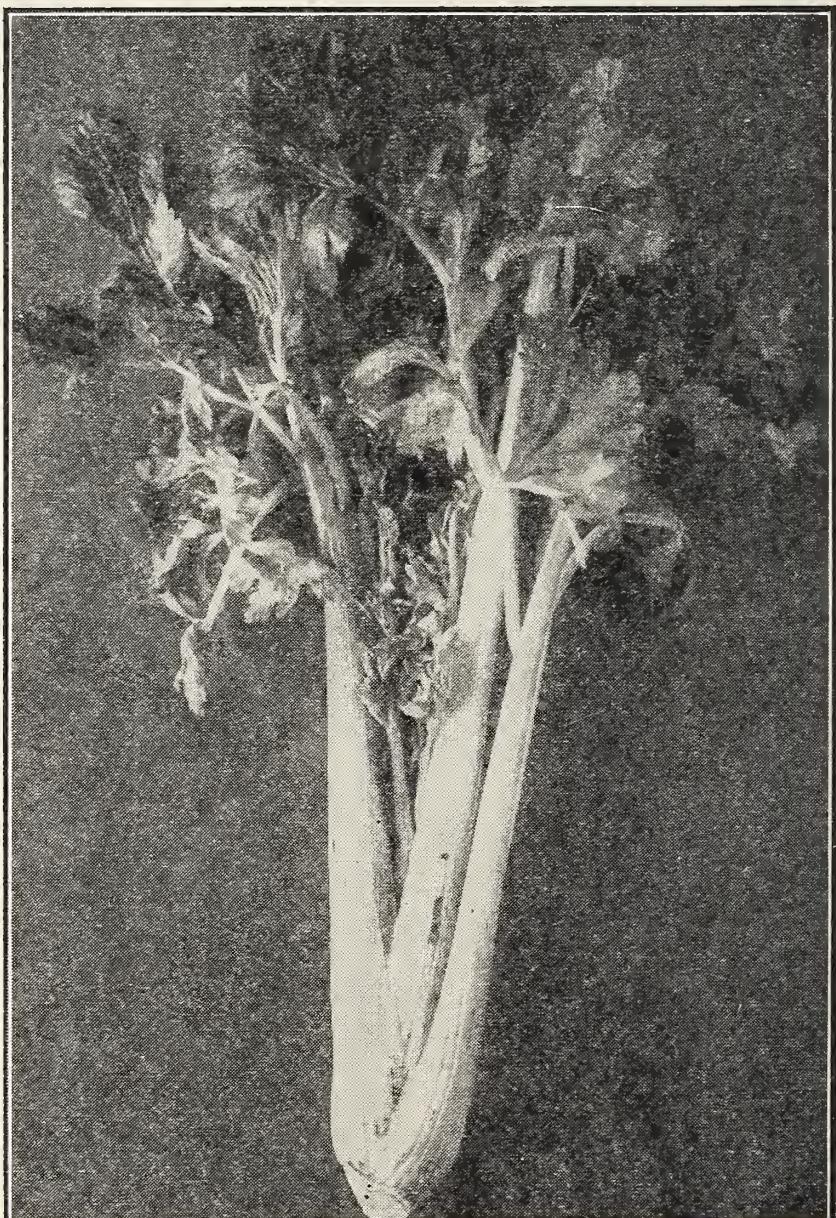
Sow seed at the same season and give the same treatment as common celery. Transplant to moist, rich soil, in rows two feet apart and six inches apart in row. Give thorough culture. It is not necessary to earth up or "handle" the plants. After the roots have attained a diameter of two inches, they are fit for use. To keep through winter pack in damp earth or sand and put in the cellar or leave out of doors, covering with earth and straw like beets and carrots.

Large Smooth Prague This improved variety produces large roots of nearly globular shape and comparatively smooth surface. Giant Pkt. 10c; Oz. 25c; $\frac{1}{4}$ lb. 75c.

Chervil A hardy annual with aromatic leaves resembling parsley and by many considered superior to it in flavor. The young leaves are used in soups and salads and for flavoring and garnishing meats and vegetables.

Sow in early spring in rich, well prepared soil. The seed is slow to germinate, sometimes remaining in the earth four to five weeks before the plants appear. When the plants are about two inches high, transplant or thin to about one foot apart. They are ready for use in six to ten weeks from sowing.

Curled This sort is greatly superior to the old, plain variety, being earlier, handsomer and having fully as fine fragrance and flavor. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ lb. 40c.



M. G. Seed Co's. Golden Yellow Self Blanching

CORN SWEET OR TABLE VARIETIES

A rich, warm, alluvial soil is the best, but excellent sweet corn can be raised on any good, ordinary soil, if it is deeply and thoroughly worked before planting. In the North sweet corn should be planted as early as can be done without risking great loss from frosts or from rotting of the seed in the soil.

If planted in rows, make the rows three to four feet apart, according to the vigor of growth of the variety, and place the seed twelve to sixteen inches apart in the row, covering one inch deep with fine soil firmly pressed down.

If planted in hills, make the hills for the early varieties three feet apart each way and plant six kernels to the hill. For the later sorts the hills should be not less than four feet apart each way. Hoe frequently, and when six inches high thin so as to leave three to four plants in the hill. Give frequent and thorough but shallow cultivation until the tassels appear.

Notice—If Corn is wanted sent Parcel Post add 5c for the first pound and 1c. for each additional pound.

Golden Honey Dew A New Golden Grain variety that has ears about seven inches long which resembles Golden Bantam in color. Stalks about five feet high, usually twelve rowed and when ready for use is golden yellow in color. Grains longer than Golden Bantam, very sweet and tender and remains fit for table use longer than any yellow variety. Once you try this variety it will become your favorite Sugar Corn. $\frac{1}{4}$ Lb. 15c; Lb. 50c; 5 Lb. \$2.00.

Golden Bantam This is an early sweet corn with golden yellow grain, very tender and of excellent quality. The ears are eight rowed, six to seven inches long and of the medium size found most suitable for the table. The flavor is exceptionally rich and delicious. The stalks are four to five feet high. Our stock of this splendid home garden and market variety has been very carefully selected and is decidedly superior to much that is offered. Lb. 25c; 5 Lb. \$1.00.

M. G. Seed Co's. Money Maker We consider this the best extra early corn for the market and home garden. The ears are very large for so early a variety. The stalks are about four feet high, each generally bearing two large, finely shaped ears which become fit for use as early as those of any variety. They are twelve rowed, six to seven inches long, very symmetrical and handsome, seldom with any opening between the rows at the base. The grain is large, broad, very white, and of remarkably good quality for such an early sort. The size and beauty of this variety give it ready sale even when the market is overstocked. Lb. 40c; 5 Lb. \$1.50.

Kendel's Early Giant Remarkably large in ear for a second early sort and extensively grown in some localities for the market. The stalks are about five and one-half feet high. The ears are about eight to nine inches long, twelve rowed. The grain is rather broad and shallow, and the quality very good. Lb. 25c; 5 Lb. \$1.00.

Mammoth Blue Bantam This corn, when very young, cooks remarkably white, but the type grain is bluish black. For home use we consider it the best second early sort where tenderness and sweetness are the qualities most desired. It does especially well as a second early variety in the South. The stalks are about six and one-half feet high. The ears are about eight inches long and are usually eight rowed. Lb. 30c; 5 Lb. \$1.25.

Stowell's Evergreen The standard main crop variety, much used for the home garden, market, and canning. It is hardy and productive, very tender and sugary, remaining a long time in condition suitable for boiling. Our stock has been carefully grown and selected to avoid the tendency to a shorter grain and deterioration in the evergreen character of this best known of all late sorts. The ears about seven to eight inches long, fourteen to twenty rowed. The stalks are about seven and one-half feet high. Lb. 25c; 5 Lb. \$1.00.

Country Gentleman This variety has a small, white cob, densely covered with irregular rows of very long slender, white grains of excellent quality. The ears are seven to nine inches long. The stalks are from six and one-half to seven feet high. It is well adapted for canning as well as the home garden and market, and many consider it as the best of the late varieties. Lb. 25c; 5 Lb. \$1.00.

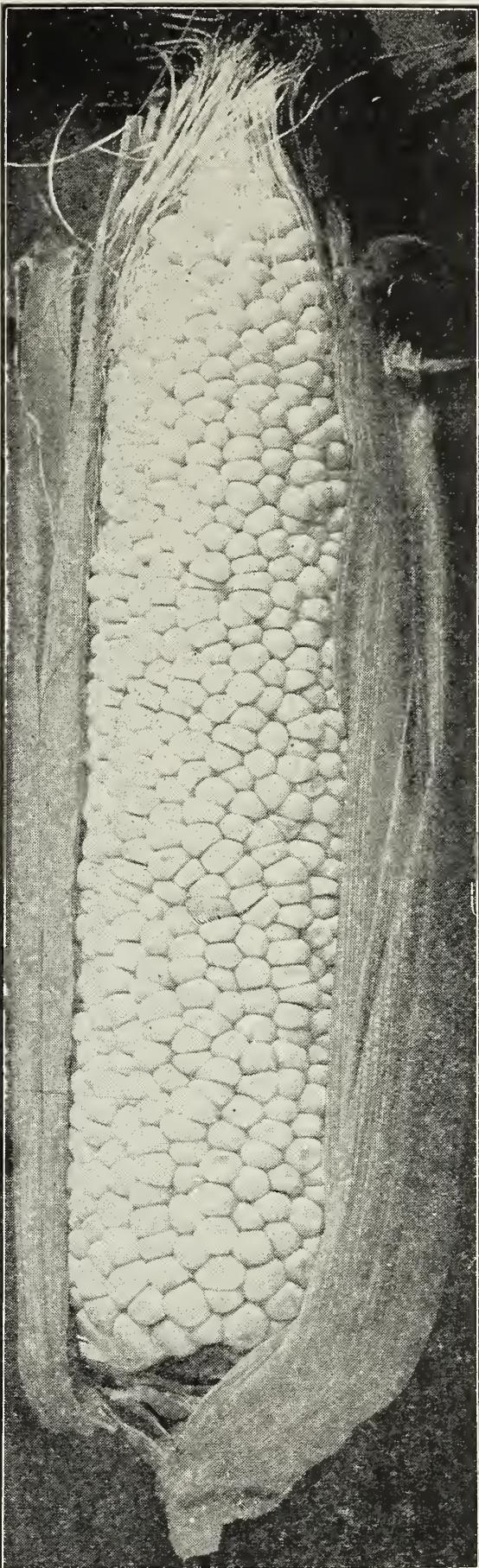
Mammoth This variety, also called Late Mammoth, produces the largest ears of any sweet corn. It is noted for the immense size of the ears, which are often twelve inches long, but are sweet, tender, and delicious. They are sixteen or eighteen rowed. The stalks are very large, about eight feet high. Lb. 25c; 5 Lb. \$1.00.

Zig-zag Evergreen This fine new strain possesses the distinct characteristics which have made Stowell's Evergreen so deservedly the favorite for main crop, but produces ears fit to use from one week to ten days earlier. Rows irregular. Lb. 25c; 5 Lb. \$1.00

M. G. Seed Co's. Double Nose or Club This late or main-crop variety is a strain of Zig Zag, producing a larger ear than the former, but retaining its productiveness, similar fine quality, and irregular "shoe-peg" arrangement of the crowded, slender, deep grains. The ears, being so much larger than those of the original type, are more desirable in our locality as a market variety. Lb. 30c; 5 Lb. \$1.25

Early Adams or Burlington An excellent early field variety and often used for table, particularly in the South. The ears are about eight inches long, twelve or fourteen rowed. The kernels are white, rounded, somewhat deeper than broad and indented at the outer end which is whiter and less transparent than the inner. The stalks are about six feet high. Lb. 20c; 5 Lb. 75c.

Look for list of Field Corn for feeding or ensilage on page 74.



Zig Zag

CUCUMBER

sired for use than it is in the more or less wilted condition in which it is found on the market.

In order to obtain the largest yield of cucumbers, the soil should be well enriched with well-rotted manure, but an abundance of good fruit can be raised on any rich garden soil. Plant the seed not over an inch deep in hills four to six feet apart each way, dropping fifteen to twenty seeds in a hill. After the plants begin to crowd and danger from the striped beetle is pretty well over, thin to three plants to the hill. Give frequent but shallow cultivation until the plants make runners so long that this is impracticable.

In field culture, plow furrows four feet apart and similar one at right angles to the first. At each intersection drop a shovelful or more of well-rotted manure which should be well mixed with the soil, forming a broad, flat hill four to six inches above the surface. Many growers omit every fourth row, thus forming paths for the distribution of manure and gathering the fruit.

In many sections, where earliness is very important, market gardeners start plants in boxes made like the ordinary berry box, but without the raised bottom. The boxes are set in hotbeds or cold-frames, filled with rich, friable soil and the seed planted. When danger of frost is over, the plants are set in the open ground, the boxes being cut away so that the roots are not disturbed at all.

Pick the fruit as soon as it is large enough and before it begins to ripen, as the vines will cease setting fruit as soon as any seed begins to mature. In gathering for pickles, cut the stem instead of pulling the fruit off and be careful not to mar the fruit in any way, for if the skin be broken the pickles will not keep so well.

NOTICE—Prices quoted on Cucumber, Cress and Corn Salad Seed include Postage.

Early Cluster An early and very productive variety. The vines are hardy and very vigorous, bearing fruits in clusters of two or three. The fruits are short, thick, bright green, shading lighter at blossom end, crisp and tender. This sort is planted in many sections for the home garden. It is extensively used for a pickling cucumber as well as for slicing. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Boston Pickling This is a very productive variety that is extensively grown for pickles. The vines are vigorous. The fruits are bright green, of medium size, very smooth and symmetrical. The flesh is crisp and tender. Our seed is decidedly superior to much that is offered. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

Small Gherkin (For Pickles) This is a very small, oval, prickly fruited sort quite distinct from all others and grown exclusively for pickles. It is the smallest of all the varieties and should always be picked when young and tender. The seed is distinctly smaller than that of other cucumbers and is slow to germinate, requiring usually from two to three weeks. Giant Pkt. 10c; Oz., 15c; $\frac{1}{4}$ Lb. 50c.

Improved Long Green The stock we offer under this name is in a class by itself. The vines are very vigorous and productive. The fruits are very long, often twelve to fifteen inches when mature, and are sometimes longer. They are uniformly slender and of beautiful dark green color. The large warts and spines are well distributed over the surface instead of being clustered at one end as in inferior stocks. The variety furnishes some fruits early but matures the bulk of its crop rather late. It is a standard sort for slicing and is very largely used for pickles. The fruits are often used for making sweet pickles. This is probably the most extensively used cucumber for the home garden and market. The stock we offer has no equal. Giant Pkt. 10c; Oz. 20c; $\frac{1}{4}$ Lb. 70c.

Jersey Pickling This variety is between the Long and the Short Green, forming a long, slender, cylindrical pickle which is very crisp and tender. The vines are very vigorous and productive. The mature fruits are about eight to nine inches in length and are sometimes longer. This sort is desirable for slicing as well as for pickling. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Early White Spine One of the best sorts for table use. The vines are vigorous, fruiting early and abundantly. The fruits are uniformly straight, light bright green, fairly well covered with white spines and when mature are often about seven inches in length and are sometimes longer. The flesh is crisp, tender, and of excellent quality. The variety is much used for the home garden and market. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

Klondike A medium early, white spined cucumber of handsome, very dark green color and of excellent quality for slicing. The vines are very hardy and productive. The mature fruits when grown under favorable conditions are often about eight inches in length, and are uniform in size and shape. The color is very dark green, slightly striped at the ends. The dark green color is retained much longer and is affected less by the hot sun than any other sort with which we are familiar. Its uniform size and shape and splendid color are making this variety very popular as a shipping sort. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

Extra Long or Evergreen The fruits of this desirable table variety are long, cylindrical, dark green, with very white, crisp, and tender flesh. The vines are vigorous and productive and come into full bearing somewhat later than Early White Spine. The mature fruits are about eight to nine inches in length and are sometimes longer. This variety is adapted also for forcing. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

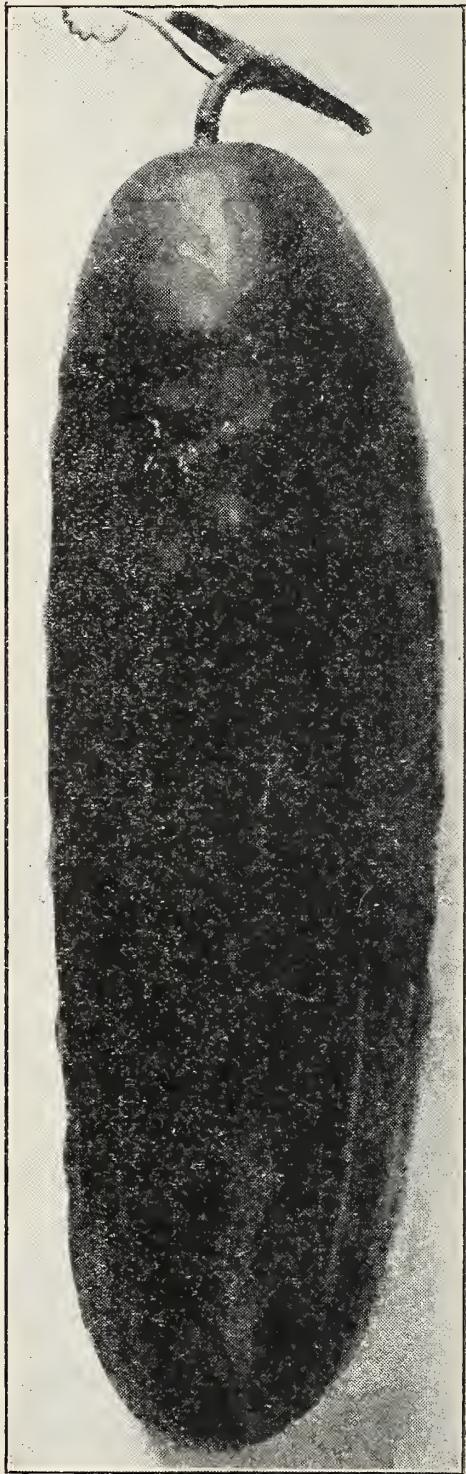
CRESS

As early in spring as the ground can be worked sow the seed in rich, well prepared soil, in shallow drills about sixteen inches apart, covering with about one-half inch of fine soil firmly pressed down. When the young plants are well started thin four to six inches apart in the row. For succession plant every two weeks, thinning out as required for use. Keep off insects by dusting with Pyrethrum powder.

Curled or Pepper Grass The leaves of this small salad are used for garnishing. It is also desirable with lettuce, to the flavor of which its warm, pungent taste makes a most agreeable addition. The plant is of rapid growth, about one foot high. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

True Water This is a distinct variety of cress with small, oval leaves and thrives best when its roots and stems are submerged in water. A fair growth may be obtained in soil which is kept wet but does best when along moist banks or in tubs in water-covered soil. It is one of the most delicious of small salads and should be planted wherever a suitable place can be found. The seed

This is one of the vegetables that can be grown to perfection by any one who can control a few square yards of reasonably good soil that is fully exposed to the sun. Every family should be supplied from its own garden, since the fruit is so much better when gathered fresh from the vines as de-



Extra Long or Evergreen White Spine

is usually sown and lightly covered in gravelly, mucky lands along the borders of small, rapid streams. The plants will need no subsequent culture, as under favorable conditions they increase very rapidly by self-sown seed and extension of the roots. When gathered for the market the shoots should be cut, not broken off. In summer it is best to cut them closely, the oftener the better. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.25.

CORN SALAD Fetticus or Lamb's Lettuce

This is a small, quick growing salad plant for late fall, winter, and spring use. The leaves are used as a substitute for lettuce and spinach.

During August and September sow the seed in shallow drills about one foot apart, covering with about one-fourth inch of fine soil firmly pressed down. On the approach of severe cold weather, cover with straw or coarse litter. The plants will also do well if the seed is sown very early in spring and like most salad plants are greatly improved if sown on very rich soil. The seed we offer is extra cleaned. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Chicory--Large Rooted or Coffee The dried and prepared roots are much used as a substitute for coffee, and the young leaves may be used as a spring salad. Our stock is the improved type, with very much larger, smoother, whiter, and proportionately shorter roots than the old kind.

Sow seed as early in spring as the ground can be prepared, in rather light, moderately rich soil, in drills two to two and one-half feet apart for either garden or field culture. When the plants are sufficiently large, thin to six inches apart in the row. Cultivate well.

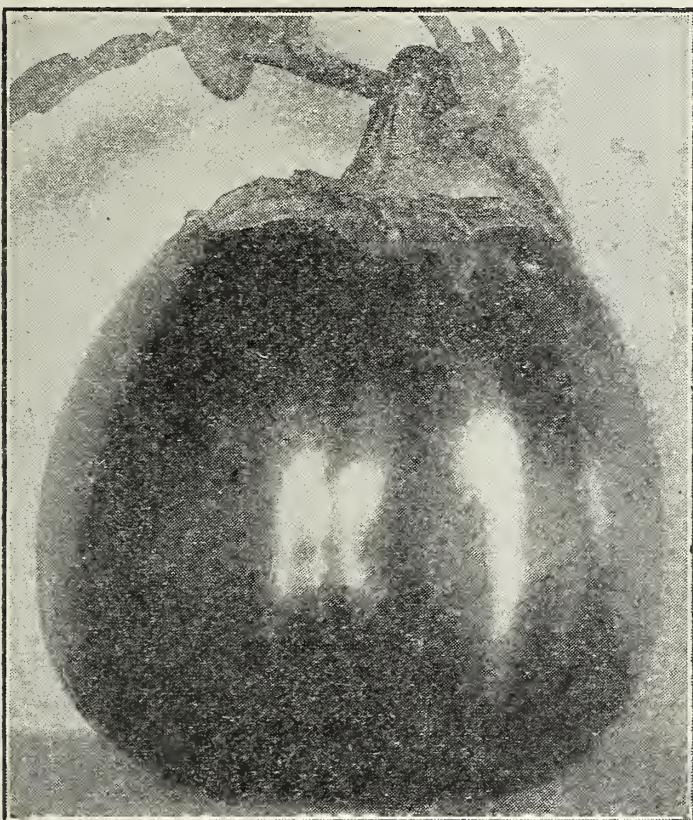
Witloof (French Endive.) The leaves and leaf stems of this variety are blanched and used as a salad like Endive or Cos Lettuce. The top will attain the proper size in from four to six weeks. Giant Pkt. 10c; Oz. 30c; $\frac{1}{4}$ Lb. 75c.

Chives--Allium Schoenoprasum An onion-like plant used as a salad and for flavoring soups. It also makes an excellent ornamental garden bed edging which may frequently be cut, a new growth of leaves appearing soon after each cutting. The plants grow about ten inches high. One sowing will answer for about three years. Giant Pkt. 10c; Oz. 85c; $\frac{1}{4}$ Lb. \$2.25.

Collards This is a tall, loose leaved cabbage-like or kale-like plant grown throughout the South and known in different sections as "Cole," "Colewort," or simply "Greens." It is extensively used for the table as well as for stock feeding in the South where it continues in growth and is usable throughout the entire winter. Collards usually succeed in locations where cabbage cannot be grown to perfection.

Sow the seed thickly in drills, in rich ground, transplanting when about four inches high; or sow in drills where the plants are to remain and when well started thin to two or three feet apart in the row. In the South, seed may be sown from January to May and from August to October.

Georgia, Southern or Creole This is the white or green stemmed variety, growing two to three feet high and forming a large, loose, open head or cluster of leaves with a rather long stem. A frost, if not too severe, will improve rather than injure the quality of the leaves. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.



Market Gardeners Seed Co. Improved Large Purple

EGG PLANT

Seed germinates slowly and should be started in hotbed, for in this, as in all semi-tropical plants, it is important to secure a rapid and continuous growth from the first, the plants never recovering from a check received when young. When plants have two rough leaves transplant three or four inches apart. When the ground is warm and all danger not only from frosts but from cold nights is past, harden off by gradual exposure to the sun and air and decreasing the supply of water, then carefully transplant to open ground, setting two and one-half feet apart. It is desirable to shade the young plants from very hot sun and to protect them from the potato bug which otherwise often destroys them. Some seasons egg plants will fail to set fruit or will not begin bearing until too late to mature, no matter how faithfully they may have been cared for. This is especially likely to happen if the summer is cool and rather moist. We know of no certain remedy for it, although it is a good practice to pinch off the ends of the branches after the plants begin to bloom, so that only two or three fruits will set.

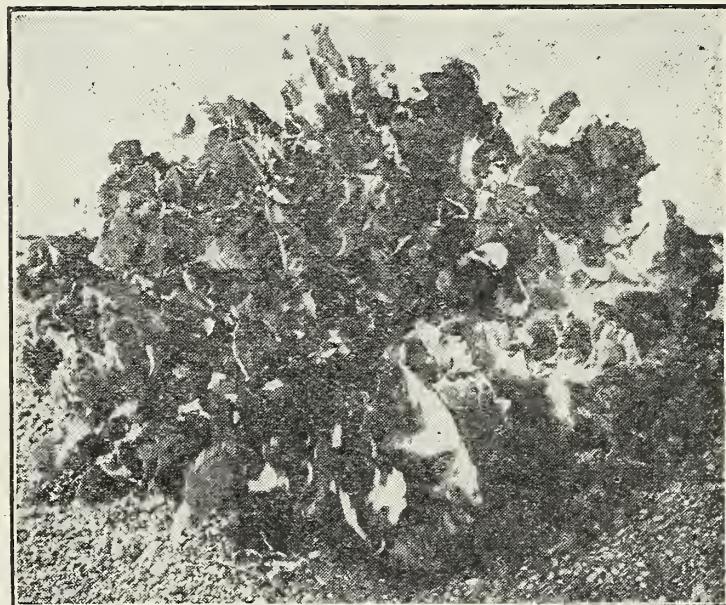
M. G. Seed Co's. This variety is a general favorite both for market and **Improved Large Purple** home garden. The plant is spineless, large and spreading with light green foliage. It usually produces four to six large, oval fruits of a splendid dark purple color. The vigor and productiveness of the plants and the large size, earliness and fine quality of its fruits make it a most profitable variety for market gardeners. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.50.

Black Beauty Rich dark purple, large, and symmetrical, maturing a little earlier than our Improved Large Purple but usually not quite as large. Very desirable for the market as the fruit holds its color a long time. Giant Pkt. 10c; Oz. 50c; $\frac{1}{4}$ Lb. \$1.75.

DANDELION

Sow early in spring, in very warm, rich soil, in drills eighteen inches apart; thin to five inches apart and cultivate well; they will be fit for cutting the next spring. When grown for the roots, sow in September and cultivate well during the fall and the following summer; the roots will be fit to dig in October.

Cultivated or French Common A decided improvement on the wild dandelion. It is very early and vigorous. Giant Pkt. 10c.



Market Gardeners Seed Co. Yellow Curled

ENDIVE

One of the best salads for fall and winter use. Endive is not only much used for salads and garnishing but is also desirable for greens and for flavoring soups and stews. Plants may be grown at any season of the year but are more generally used late in the fall. For early use sow about April 15; for later supply sow in June or July in drills fourteen to twenty inches apart and when well started thin the plants to one foot apart. When nearly full grown tie the outer leaves together over the center in order to blanch the heart of the plant. By covering fresh plants every few days a succession may be kept up.

M. G. Seed Co's. This beautiful variety does not need blanching to prepare it for use, the midribs being naturally a golden yellow finely cut with curled leaves. Highly esteemed by Market Gardeners. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.50.

NOTICE—All prices quoted on this page include postage.

Are you utilizing all that ground of yours?

ENDIVE—Continued

NOTICE—All prices quoted on this page include postage except where noted.

Large Green Curled A hardy, vigorous growing endive with bright deep green leaves. The midribs of the outer leaves are usually tinged with rose. The dense mass of deeply divided leaves formed in the center blanches very readily to rich creamy white. This sort is highly esteemed for the market and home garden and is much used for salads. Giant Pkt. 10c, Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Broad Leaved Batavian (*Escarolle*) A variety having broad, more or less twisted and waved bright deep green leaves with thick, nearly white midribs. The inner leaves form a fairly solid, clustering head which blanches beautiful deep creamy white and is crisp, tender, and of fine flavor. This sort is unsurpassed for salads and is much used for the home garden and market. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c:

Kale or Borecole

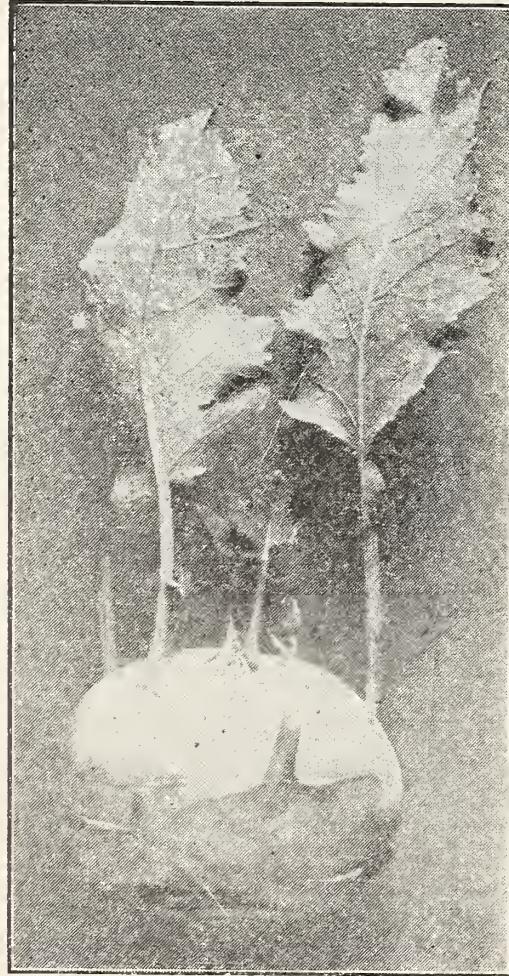
This is extensively grown, especially in the South during the fall, winter, and spring. The leaves are used principally for greens. A favorite way is to cook them with bacon. The leaves are also used for garnishing.

Where climate permits seed may be sown any time from August to October, broadcast or preferably in drills eighteen inches apart so that the plants when small may be cultivated. The quality is improved rather than injured by frosts if not too heavy. Farther north sow in April or May in rich light soil in rows two to three feet apart and where plants of the largest size are desired thin to two feet apart in row. It is better not to cut or handle the plants while frozen, but if this is unavoidable, thaw them out in cold water. The young shoots which start up in the spring from the old stumps are very tender and make excellent greens.

Tall Green Curled Scotch The plant of this variety grows to three or four feet high, bearing long, plume-like, light green leaves which are deeply cut, also finely curled at edges. Very ornamental and so hardy that a moderately heavy frost improves rather than injures its quality. Giant Pkt. 10c; Oz. 20c; $\frac{1}{4}$ Lb. 60c.

Dwarf Curled Scotch A finely curled, spreading, low growing variety, very hardy and much used for greens. This sort, sometimes called Norfolk, is grown extensively in the South for shipment and is planted largely for the home garden. The leaves are long and attractive bright green.

This sort is often used for garnishing. Giant Pkt. 10c; Oz. 20c; $\frac{1}{4}$ Lb. 60c.



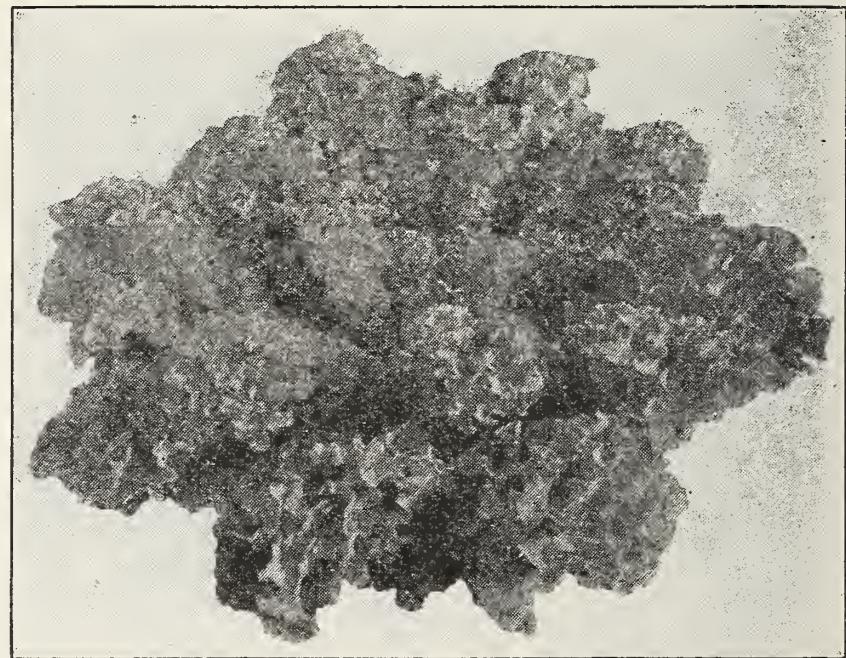
Early White Vienna

Garlic A bulbous rooted plant of the onion family esteemed by some for flavoring soups, stews, etc. We frequently receive orders for garlic seed but we can supply bulbs only. Prepare ground the same as for onions, plant bulbs in drills eight inches apart and four inches apart in row covering two inches deep. When the leaves turn yellow take up the bulbs, dry in shade and lay them up in a dry loft as you would onions. **BULBS**, $\frac{1}{4}$ Lb. 20c; Lb. 50c.

Horse Radish Horse Radish rarely produces seed but is grown from pieces of the roots. Mark off the rows two and one-half feet apart in rich, moist, well prepared ground and set the pieces of roots eighteen inches apart in the rows vertically, the small end down and the top one to three inches below the surface. Cultivate thoroughly until the tops cover the ground, when their shade will keep down the weeds. **SMALL ROOTS**—3 for 10c; 25c. per dozen, postpaid. By freight or express at purchaser's expense, 75c. per 100.

HERBS used for flowering purposes

ANISE (Pimpinella anisum)	LAVENDER (Lavendula spica)
BALM (Melissa officinalis)	MARJORAM, SWEET (Origanum marjorana)
BASIL, SWEET (Ocimum basilicum)	ROSEMARY (Rosmarinus officinalis)
BORAGE (Borago officinalis)	RUE (Ruta graveolens)
CARAWAY (Carum carui)	SAFFRON (Crocus sativus)
CORIANDER (Coriandrum sativum)	SAGE (Salvia officinalis)
DILL (Anethum graveolens)	SAVORY, SUMMER (Satureja hortensis)
FENNEL, SWEET (Foeniculum officinale)	THYME (Thymus vulgaris)
HOREHOUND (Marrubium vulgare)	WORMWOOD (Artemesia absinthium)
HYSSOP (Hyssopus officinalis)	
Pkt. 5c.	



Market Gardeners' Seed Co.'s Curled Winter

M. G. Seed Co.'s Curled Winter A very vigorous growing variety of spreading habit, its green foliage having a distinctive bluish tinge or bloom. The leaves are very large, cut and frilled at the edges. The variety is very hardy, a favorite for greens and in some sections is extensively grown for forage. Giant Pkt. 10; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Kohl Rabi The edible part is the turnip-shaped bulb formed above ground. It is tender and excellent when used before fully grown, combining somewhat the flavors of cabbage and turnip. In some sections of this country the Kohl Rabi is also called Turnip-rooted Cabbage. In Europe the name Turnip-rooted Cabbage has been applied to the Ruta Baga, Swedish-Turnip, or Swede.

Seed should be sown in light, rich soil as early in spring as possible in rows one and one-half feet apart and when well established thin to six inches apart in the row. Plantings at intervals of ten days will give a succession of good young Kohl Rabis. Plantings may be made the latter part of July for fall use.

Early White Vienna (*Extra for forcing*) This variety is extremely early with distinctly small tops. The bulbs are of medium size, very light green or nearly white, and are of best quality for the table if used when about two inches in diameter. Giant Pkt. 10c; Oz. 25c; $\frac{1}{4}$ Lb. 80c.

Leek This belongs to the onion family. The leaves are flat, and the stems are very large, cylindrical, and bulbous. Sow early in spring in drills twelve to fifteen inches apart, covering one-half inch deep. Thin plants to six inches apart in row and draw the earth about them when cultivating. If one desires very white and tender leeks transplant when about six inches high, setting four inches apart in trenches about two feet apart and gradually earth up like celery.

Large American Flag A desirable strong growing, broad leaved leek, hardy and productive. It is a favorite with many market gardeners and is also extensively used for the home garden. Giant Pkt. 10c; Oz. 25c; $\frac{1}{4}$ Lb. 80c.

Monstrous Carentan The largest variety, when well grown often three inches in diameter, white and tender. Giant Pkt. 10c; Oz. 25c; $\frac{1}{4}$ Lb. 80c.

LETTUCE

For early outdoor culture in the latitude of Cincinnati and southward the seed may be planted in the fall, protecting the young plants from severe freezing either with frames or coarse litter which may be removed as soon as danger of severe freezing is over. Lettuce in ground out of doors will stand some freezing but is killed by prolonged frost or frequent freezing and thawing. North of Cincinnati an early crop may be secured by starting under glass from January to March and hardening off well before setting in ground, which should be done as soon as weather will permit.

Lettuce to be at its best should be grown as rapidly as possible, hence the soil should be made as rich and pliable as possible by liberal manuring and thorough preparation. For winter, sow under glass from November to February and thin out as early in the spring as the ground can be worked, in drills eighteen inches apart and thin the young plants to four inches apart in the row. As the plants begin to crowd thin them out and use as required. In this way a much longer succession of cuttings may be had from the same ground. For the cabbage or heading varieties where large heads are desired, the plants should be thinned ten to twelve inches apart in the row.

Varieties marked A are particularly adapted for culture under glass and for early spring use. Those marked B are sometimes grown under glass, but are especially desirable for outdoor, summer culture. Big Boston, Brown Dutch, and California Cream Butter are very hardy and suited for winter outdoor culture in the south.

NOTICE—All prices quoted on this page include Postage.

CABBAGE OR HEADING VARIETIES

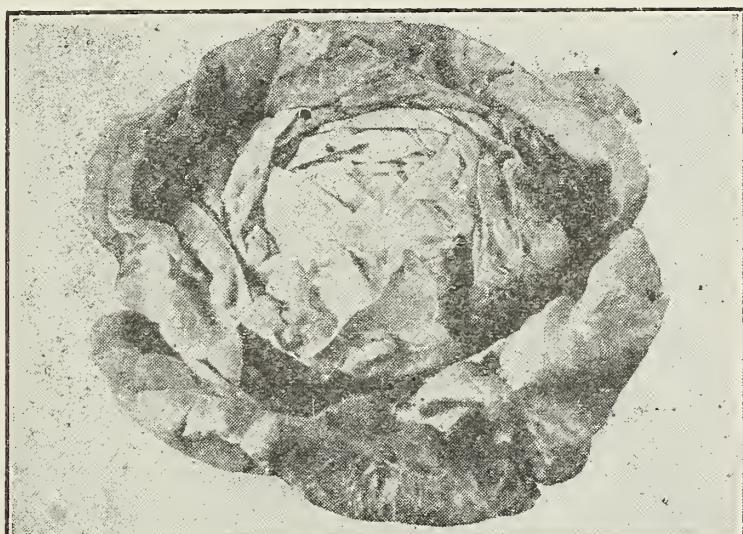
May King a. (Seed white) This is a handsome, extremely early, compact, cabbage or heading variety for the home garden and market, forming very firm heads of medium size and excellent quality. The color is light yellowish green, tinged with reddish brown when mature. The inner leaves blanch rich golden yellow, very tender and buttery. The plant is very compact for so large a head. The variety is exceptionally early outdoors, attaining a size suitable for use before other sorts and is also very satisfactory for forcing. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Early Tennis Ball a. (Seed black) One of the best heading lettuces, especially desirable for early planting outdoors and also suitable for forcing. The plants are large, with thick, bright green leaves. They form very solid heads, the inner leaves blanching to a rich, creamy white, and are crisp, tender and buttery. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Salamander b. (Seed black) A very extensively used sort of excellent quality for the home garden and market. The variety withstands hot weather remarkably well. It forms a large compact, light green plant. The leaves are broad, thick, somewhat crumpled and closely overlapping so that the inner ones are very finely blanched. It is one of the most satisfactory heading lettuce for growing outdoors. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30.

Mammoth Black b. A smooth leaved lettuce forming very large, compact, cabbage-like heads of thick, yellowish green leaves, the inner ones beautifully blanched, very crisp, tender, and buttery. It is one of the most largely grown sorts, suitable for the home garden as well as market. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Deacon b. (Seed white) This is an excellent summer variety. The head is of large size, is very firm and remains in condition for use a long time. The plant is very compact, with few outer leaves which are usually very smooth, thick, and of light green color. The inner leaves blanch to a bright, rich yellow and are crisp, buttery, and very well flavored. Pkt. 5c; Oz. 15c; $\frac{1}{4}$ Lb. 30c; Lb. \$1.00.



May King



Big Boston

M. G. Seed Co's. a. (Seed white) This variety is popular for outdoor culture and is also much in demand as **Big Boston** a compact, large heading, forcing sort for cold-frames. The plants are large, very hardy, and vigorous. The leaves are broad, comparatively smooth but wavy at the edge, thin, very hard and crisp. In color they are bright light green, the head slightly tinged with reddish brown. The inner leaves blanch to an attractive greenish white, tinged with light yellow. It usually heads up under cold weather conditions better than any other variety, and is grown extensively in the south for shipment north in the winter. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Brown Dutch b. (Seed black) Outer leaves large, thick, green tinged with brown and covering a solid head which is beautifully blanched, sweet, tender, and well flavored. The variety is desirable because of its hardiness and is well adapted for planting in the south as a winter lettuce. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

California Cream Butter b. (Seed brown) A very reliable or Royal Summer Cabbage heading sort, with glossy, deep green leaves, the outer ones slightly spotted or splashed with brown. The inner leaves form a large, very solid head, rich light yellow in color, very thick, tender, and buttery. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Jersey Winter a. (Seed white) A light green, loose heading, medium sized lettuce. The variety is very hardy and when wintered over it has proven to be one of the very earliest to mature its heads. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Hanson b. (Seed white) One of the most desirable later summer lettuces. The plant is compact and forms a large, cabbage-like head which remains in condition longer than most heading sorts. The outer leaves are bright yellowish green, broad, somewhat crumpled and frilled at edge and with distinctive midrib. The inner leaves are white, very crisp, and sweet. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Lettuce Curled or Loose Leaved Varieties--Continued

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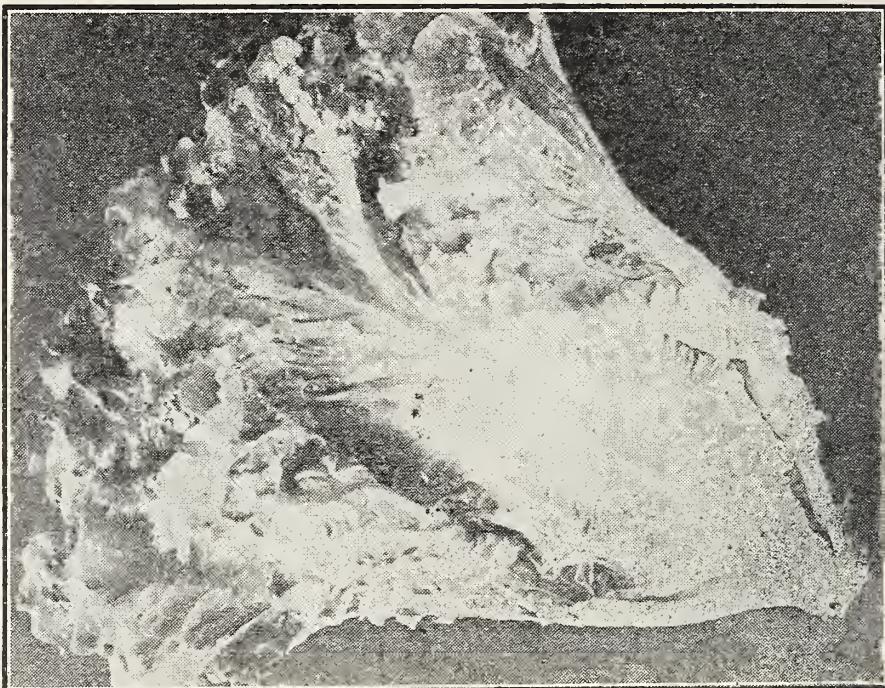
Grand Rapids a. (*Seed black*) As a lettuce for greenhouse forcing this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot, and remaining in condition several days after being fit to cut. The plant is upright and forms a loose cluster of large, thin, bright green leaves savoyed, finely crimped at edges. The leaves do not wilt quickly after cutting so that the variety will stand shipping long distances better than most sorts. It is a very attractive variety and is desirable for garnishing. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Black Seeded Simpson a. One of the best for sowing outdoors where an exceedingly tender leaf is desired and for those markets which demand a very large loose clustering sort. The color is an attractive light yellowish green. It is used also for growing under glass or in frames. The leaves are ruffled and blistered and even the large outer ones are very tender. The sort is especially adapted for sowing thickly and cutting when the plants are young. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Simpson's Early Curled b. (*Seed white*) A very extensively used early loose leaved, or clustering variety. The leaves are light green in color, slightly frilled and much blistered, crisp, sweet, and tender. The sort is especially adapted for sowing thickly and cutting when the plants are young. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Early Prize Head b. (*Seed white*) A large, clustering, non-heading lettuce, most excellent for the home garden and undoubtedly the most easily grown variety in cultivation. It is too tender, however, to stand shipping or handling on the market. The leaves are finely curled and crumpled, bright green tinged with brownish red, and are very crisp, tender, and sweet. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

COS LETTUCE (*Romaine*) This kind of lettuce is distinguished by its long, narrow, spoon-shaped leaves, folding into loose, sugar-loaf shaped heads which blanch better by having the outer leaves drawn about them and tied. The quality is distinct from that of the Cabbage Lettuces and by many is considered very superior. Sow seed early in spring in rich, well prepared soil, in rows eighteen inches apart, covering one-half inch deep. When plants have two or three leaves thin to three or four inches apart. As the plants begin to crowd thin and use as required. If large heads are desired plants should be thinned ten to twelve inches apart. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.



Black Seeded Simpson

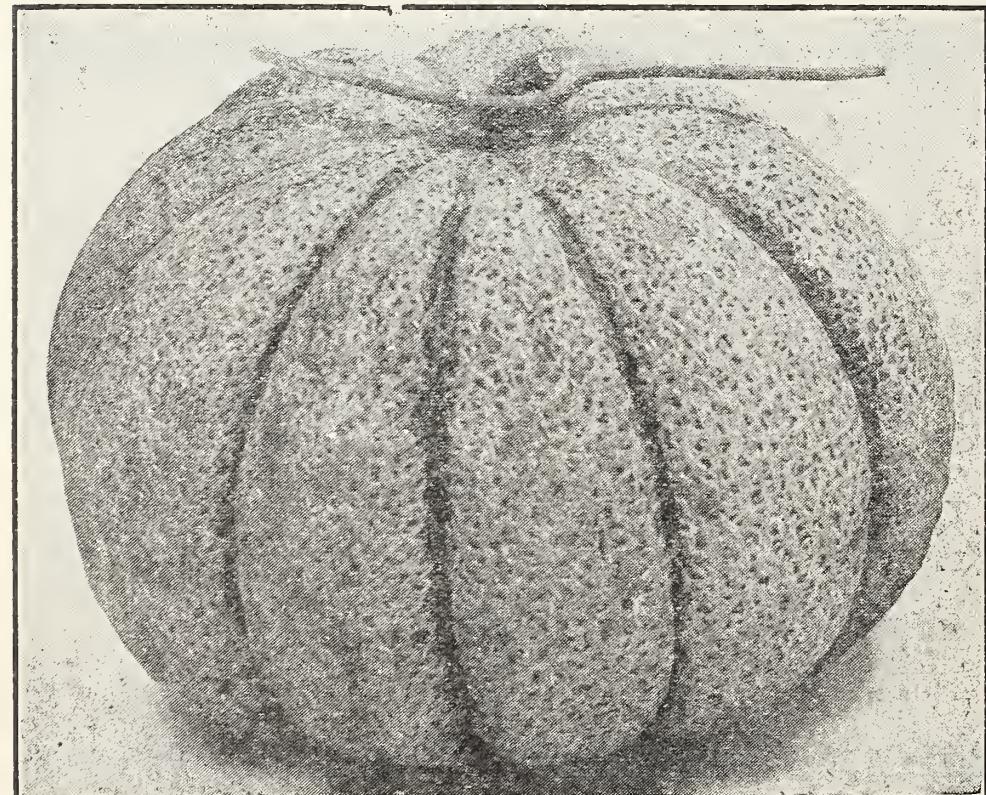
MUSK MELON

After danger of frost is past, the ground being warm and in good condition, plant in rich soil, preferably sandy loam, in hills about four to six feet apart according to the vigor of the variety. Put ten or twelve seeds in a hill, covering with about an inch of fine soil firmly pressed down. When the plants begin to crowd and the striped beetles are pretty well gone thin to four of the most vigorous plants in a hill. Give frequent but shallow cultivation, until the plants make runners so long that this is impracticable. Rich earth for the young plants is far better than manure, but if the latter must be used, see that it is well rotted and thoroughly mixed with the soil.

The quality of melons of all varieties is largely dependent upon conditions of growth and ripening. Unhealthy vines or unfavorable weather produces fruit of comparatively poor flavor.

After the plants have four to six leaves it is considered a safeguard against blight to spray with Bordeaux Mixture at intervals of about ten days, adding either Paris green or arsenate of lead for the eating insects.

GREEN FLESHED VARIETIES



Extra Early Hackensack

Extra Early Hackensack This early green fleshed variety is popular in many sections as a market melon and is also extensively used as a home garden sort. The fruits are nearly two weeks earlier than Hackensack, medium to large sized, nearly round, or somewhat flattened, evenly and deeply ribbed and with very coarse netting. The skin is green, slightly tinged with yellow as the fruit matures. The flesh is green, a little coarse but juicy and sweet. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Netted Gem or Rocky Ford This has become one of the most popular of small or crate melons and is shipped in large quantities from Colorado and Arizona. It is also a desirable medium early sort for the home and market garden. The vines are vigorous and productive. The fruits are oval, slightly ribbed, densely covered with fine netting. The flesh is green, very sweet, and highly flavored. We offer an exceptionally fine stock of this early sort, the fruit being very uniform in shape and quality and of the even size that is so desirable in a shipping melon. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Baltimore or Acme The fruits of this mid-season, green fleshed sort are medium sized, oval or long oval, slightly pointed at stem end, slightly ribbed, and are covered when ripe with coarse netting. The flesh is thick, green, well flavored, and sweet. This variety is a very productive, sure cropper of good quality. It is extensively grown in some sections for the market, also as a home garden melon. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

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Musk Melon

(Continued)

Orange Fleshed Varieties

Tip Top A well-known market sort in some sections. The fruits are large, nearly round, slightly ribbed and fairly well covered with shallow netting. The skin is light yellow when the fruit is mature. The flesh is deep yellow, rich, and highly flavored. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Petoskey or Paul Rose A well-known yellow fleshed sort, suitable for the home and market. The vines are vigorous and productive. The fruits are oval, slightly ribbed and densely netted. In general appearance they are much like Netted Gem but larger. The flesh is orange-yellow, very thick, firm, sweet, and highly flavored. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Admiral Togo or Orange Fleshed Rockey Ford A small oval musk melon with the quality of the Defender and possessing the characteristic netting, shape, size, and shipping quality of Netted Gem or Rocky Ford. Combining all the good qualities of these two fine varieties we believe the Admiral Togo is an ideal table melon. This is a desirable medium early sort for the home and market garden. Our stock is carefully bred in size and shape. It is densely netted. The flesh is very thick, ripening clear to the skin. We believe the seed we offer will meet the demands of the most discriminating buyers. We consider it the best small shipping melon yet introduced. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

M. G. Seed Co's. Defender One of the best yellow fleshed melons. It is excellent for shipping and is a desirable, intermediate sort for the home garden. The fruits are medium sized, oval, slightly ribbed, covered with gray netting. The flesh is firm, fine grained, and of highest flavor.

WATER MELON

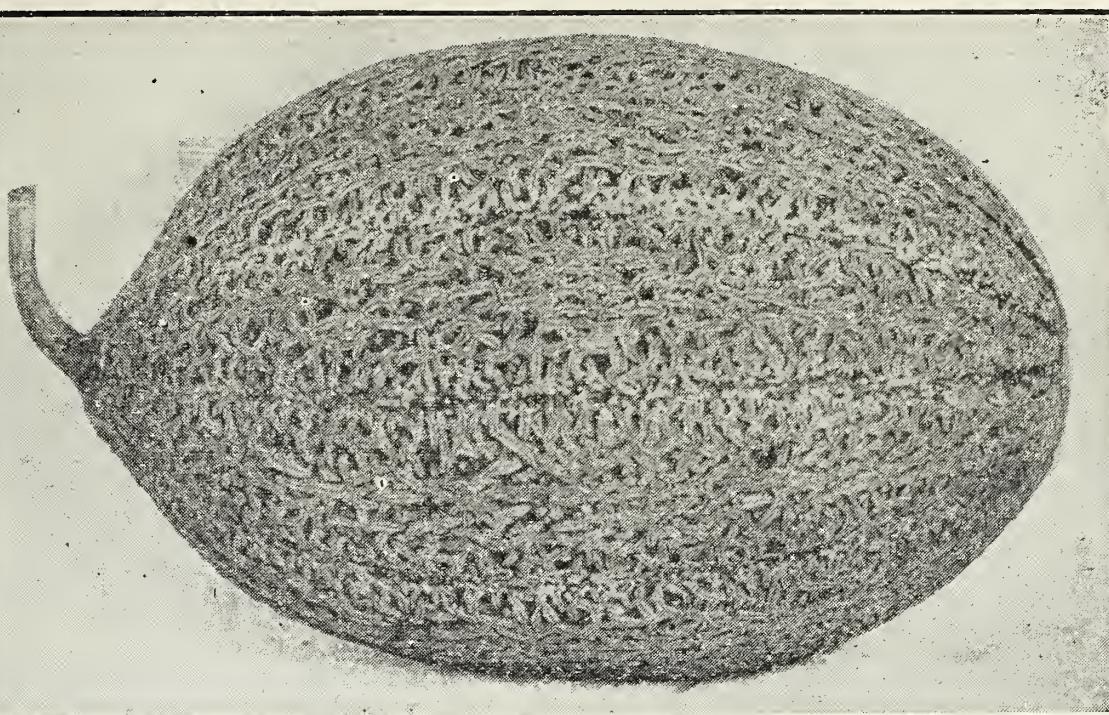
abundance of well rotted manure—hen manure, guano, or other forms rich in nitrogen, being most desirable. Over this highly manured soil put an inch or more of fresh earth and plant the seed on this, covering them about an inch deep.

It is important that the seed should not be planted before the ground becomes warm and dry, as the young plants are very sensitive to cold and wet. Put ten or twelve seeds in a hill. When the plants have formed the first pair of rough leaves, they should be thinned so as to leave two or three of the strongest and best to each hill.

Frequent watering of the plants with liquid manure will hasten the growth, thus diminishing the danger from insect pests. If the striped beetle appears use tobacco dust freely.

The best protection against blight and insect pests is to maintain a vigorous and continuous growth. It is desirable to change the location as often as practicable.

Harris' Earliest An extra early melon of excellent quality. The fruits are exceptionally large for so early a variety, slightly oval with irregularly mottled broad stripes of light and dark green. The flesh is bright red, sweet, and tender. Seed black. The vines are vigorous and productive. One of the best varieties for northern latitudes. We have carefully observed this splendid variety for several seasons and are convinced that it is the very best first early melon for the home garden. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.



M. G. Seed Co's. Defender.

The color is rich, deep orange-yellow. The flesh extends to the rind and retains its color and quality quite to the outer shell which, though thin, is very hard and firm so that one can remove the edible portion with a spoon, leaving a rind no thicker than that of an orange. The vines are very vigorous and productive. The fruit because of the hard, firm rind, keeps and bears shipment remarkably well. This splendid variety was originated and introduced in 1901. We believe it is identical with the melon introduced in 1907 and sold largely as Burrell's Gem. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Honey Dew Melon Fruits are of medium size, round or slightly oval, five to six inches in diameter and weigh about six lbs. each. The skin is smooth with an occasional net and when fruits are ripe is creamy yellow in color. Flesh light emerald green, fine grained and of very sweet, sugary flavor. Rind thin but very firm and the fruits stand shipping remarkably well. If picked shortly before fully mature the fruits will keep for several weeks. Matures about two weeks later than Rocky Ford. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 50c.

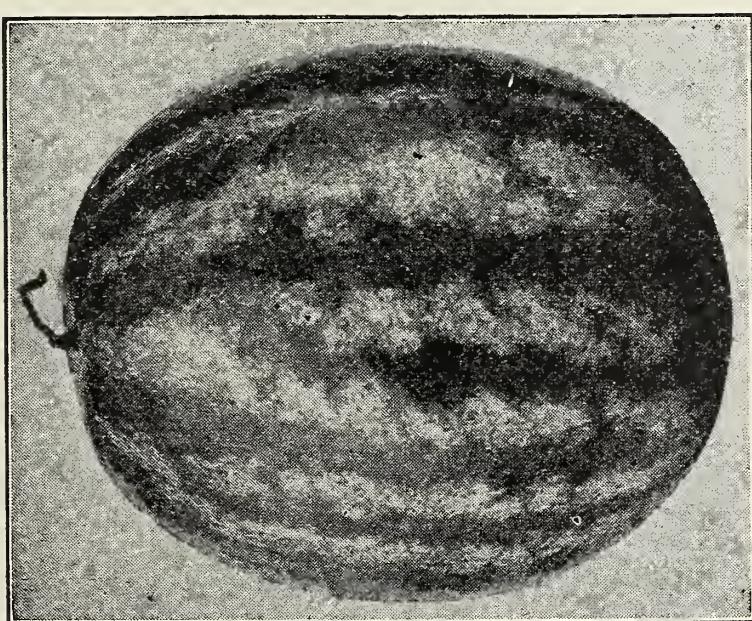
To make certain of raising good Watermelons, it is essential that the plants have a good start and to this end it is important to prepare hills about eight feet apart, by thoroughly working into the soil an abundance of well rotted manure—hen manure, guano, or other forms rich in nitrogen, being most desirable. Over this highly manured soil put an inch or more of fresh earth and plant the seed on this, covering them about an inch deep.

The vines are moderately vigorous, hardy, and productive. The fruits are medium sized, oval, but somewhat uneven in shape, bright green, finely veined with a darker shade. The rind is thin. The flesh is bright scarlet, solid, crisp, and very sweet. Seed white. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

Peerless Sometimes sold as Ice Cream. One of the best early sorts for the home garden and for market gardeners who deliver direct to consumers. The vines are moderately vigorous, hardy, and productive. The fruits are medium sized, oval, but somewhat uneven in shape, bright green, finely veined with a darker shade. The rind is thin. The flesh is bright scarlet, solid, crisp, and very sweet. Seed white. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

Monte Cristo or Kleckley's Sweets This most excellent variety is unsurpassed for home use or near markets. The vines are vigorous and productive. The fruits are medium to large, oblong, tapering slightly towards the stem end, dark green, often showing fine russeting. The flesh is very bright, rich red, and is exceedingly sweet. The variety is so crisp and tender that it will not stand shipping, the fruit bursting open if subjected to even a slight jar, or when the rind is penetrated with a knife. Seed white. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Sweet Heart This variety, introduced in 1894, is much used for shipping as well as for the home garden. The vines are vigorous and very productive, ripening their fruit evenly. The fruits are of largest size, oval, and very heavy. The rind is thin but firm. The color is very light green, very slightly veined with a little darker shade. The flesh is bright red, firm but very tender and sweet. The fruit remains in good condition a long time after ripening. Seed black. Our stock will be found very uniform in shape, size, and color. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c;



Harris' Earliest

For Goodness sake, plant some Defender Melons.

WATER MELON---Continued

NOTICE—Prices quoted on this page include Postage.

Tom Watson A large, long melon similar in shape, color, and splendid quality to Monte Cristo but averaging larger in size and with a tougher rind, making it especially adapted for shipping to distant markets. The vines are vigorous and productive. The flesh is rich red, sweet, and tender. Seed white, more or less marked with brown. Wherever grown in the South it has become very popular as a shipping sort. There has been an increasing demand of late for a better quality of shipping melon and this demand has been met in most exceptional degree by the Tom Watson. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

Citron The fruits are medium sized, uniformly round and are used only for preserves or pickles. The color is dark green, distinctly striped, and marbled with light green. The flesh is white and solid but not at all suitable for eating raw. Seed red. The fruits mature late in the fall and in this condition can be kept a long time. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

Iceberg Introduced in 1902. In general shape, size, and appearance this is similar to Kolb's Gem, but is distinctly darker and the skin where the melon rests on the ground is rich yellow instead of white. It has a

ONION

Although onions are often raised from sets and from division, by far the best and cheapest mode of production is from seed. The facility with which seed is sown and the superior bulbs it produces, recommend it for general use.

As early in spring as ground can be worked, sow in rich soil, thoroughly pulverized and leveled, in rows fifteen inches apart, covering one-half inch deep. When the plants are well up cultivate, thin out as desired and keep free from weeds. When grown for bunching the rows need to be only about one foot apart and the plants thinned about one inch apart in the row. For very early crop in northern latitudes sow seed in cold-frame in February and transplant when large enough to handle readily. The same location may be used for a succession of years if the ground is kept rich by applications of well rotted manure or other suitable fertilizer and is thoroughly worked at proper intervals. Where climate permits seed may be sown early in winter.

Yellow Danvers A productive and very extensively used early or main crop variety of medium size. The skin is light coppery yellow in color. The flesh is creamy white, mild, and of excellent flavor. The bulbs are flattened yet quite thick with small necks, ripen down quickly and very evenly and keep very well. This is still a standard, general crop, yellow onion for the home garden and market where a strictly globe shaped bulb is not demanded. Giant Pkt. 10c; Oz. 20c; $\frac{1}{4}$ Lb. 60c.

White Portugal or American Silverskin This is a medium sized onion of mild flavor and with beautiful, clear white skin. The variety is a favorite with many for use when young as a salad or bunching onion and for pickles. It usually matures about ten days earlier than White Globe and is fine for fall and early winter use. It is an excellent medium early sort for gardeners who do not care to plant more than one variety. The bulbs are nearly round when of bunching size, somewhat flattened when mature. This is the best flattened white onion for northern latitudes. Giant Pkt. 10c; Oz. 20; $\frac{1}{4}$ Lb. 70c; Lb. \$2.50.

Large Red Wethersfield This is the standard red variety and a favorite onion in the east, where immense crops are grown for shipment. It is very extensively grown for home garden use as well as the market. The bulbs are large and are flattened yet quite thick. The skin is deep purplish red. The flesh is light purplish white, moderately fine grained, rather strong but of pleasant flavor. The variety is

very firm, hard rind and is as good a shipper as Kolb's Gem but the flesh is deeper colored, extends nearer to the rind and is more tender and sweet. Sometimes sold as Blue Gem. Seed black. The best dark colored round shipping melon. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

Cassaba Melon The cassabas are primarily for winter use. They require a long season for maturing but the fruits are exceptionally good keepers. The skin of the fruits is usually furrowed and they possess little or none of the common musk melon odor.

Seed may be planted in April or May. Cultivate same as other musk melons but do not water too freely after first setting of fruit is fully grown. The fruits may be picked when the light streaks have become quite yellow. Store the fruits so they do not touch each other, in a cool dark place. When the rind becomes slightly softened and moist, they are ready to cut.

Golden Beauty One of the best cassabas. It is a variety grown extensively for shipment from Southern California. The fruits are nearly globular, bright yellow with golden tint, with wrinkled skin, six to eight inches in diameter. The flesh is white, very thick, juicy and sweet. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

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very productive, one of the best keepers and very popular for general cultivation. This medium early or main crop variety does best on rich, moderately dry soil, but on low muck land it is more apt to form large necks than the Danvers. There is no better sort for poor and dry soils. Giant Pkt. 10c; Oz. 20c; $\frac{1}{4}$ Lb. 70c.

Mammoth Yellow Spanish or Prizetaker A very hand-some late or main crop of the largest size and nearly globular in form, usually with shoulder and base slightly sloping. The skin is yellowish brown or light yellow with slight tinge of brown. The flesh is creamy white, very mild, tender, and of excellent flavor. The variety keeps well if thoroughly ripened and is very desirable for shipping for fall and early winter use. It is one of the best of the large European sorts that has become thoroughly acclimated in America and is exceptionally productive under proper conditions. If started very early in hotbed it will produce a mammoth onion the first season. Giant Pkt. 10c; Oz. 25c; $\frac{1}{4}$ Lb. 75c.

M. G. Seed Co's. The heaviest yield of onions is always obtained from rich, black lands. On such soils

Ohio Yellow Globe it is found that a globe shaped onion with a somewhat flattened base gives the largest returns and to meet the demands of the professional onion growers located on such lands, we have developed this variety. The bulbs are large, uniformly globe shaped, with small neck; shoulder usually slightly sloping, base often distinctly flattened, the largest diameter below the center of the bulb. The color is rich yellow with tinge of orange. The flesh is creamy white, mild, and of very fine quality. This main crop sort ripens down evenly, keeps very well and is excellent for shipping. No onion grower can afford to plant inferior seed when such as this can be procured. Giant Pkt. 10c; Oz. 30c; $\frac{1}{4}$ Lb. 75c.

M. G. Seed Co's. A most desirable medium early or main crop variety for the home garden. The Ohio White Globe variety yields abundantly, producing medium to large, handsome, and finely shaped, clear white bulbs. The flesh is firm, fine grained, quite mild in flavor and is more attractive than the colored sorts when cooked. The bulbs are globe-shaped, full at the shoulder, rounded at the base, keep well and are desirable for shipping. To produce the beautifully white onions so much sought in every market, one must first of all have good seed; second, grow them well on rich lands; third, exercise great care in harvesting and curing the crop. "Cord" up the onions in long rows, the bulbs on the inside and cover with boards, so that the bulbs in the open air are well protected from rain or dew which would be sure to discolor them. Giant Pkt. 10c; Oz. 30c; $\frac{1}{4}$ Lb. 80c.

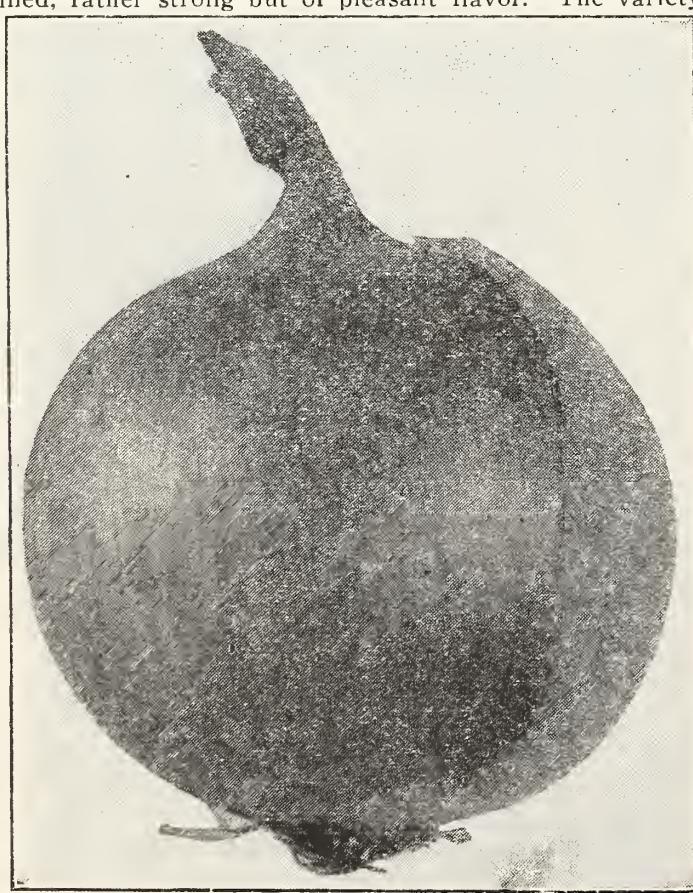
ONION SETS

To raise onion sets from seed, use good ground prepared as for large onions and sow the seed very thick in broad drills, using forty to sixty pounds per acre. If the seed is sown thin, the bulbs will not only be too large for sets but will not be of the right shape and if sown thick on poor land they will be necky or bottle shaped.

RED BOTTOM SETS. Treated precisely as top onions are, setting them out in the spring instead of sowing seed. Mkt. Price.

YELLOW BOTTOM SETS. Like the preceding except in color and used in the same manner. Mkt. Price.

WHITE BOTTOM SETS. These do not keep as well as the red or yellow, but produce beautiful white onions early in the season. Mkt. Price.



M. G. Seed Co.'s Ohio Yellow Globe.

Our Yellow and White Ohio Globe Onions grow enormous crops from seed. Try Them.

NOTICE—Prices quoted on this page include Postage.

Mushroom

The Mushroom is an edible fungus of which there are numerous varieties. We handle the ordinary commercial variety of a creamy white color with loose gills which underneath are of pinkish-red, changing to liver color. The mushroom produces "seed" or spores and there is developed a white, fibrous substance in broken threads, called spawn, which is developed and preserved in horse manure, pressed in the form of bricks. Mushrooms can be grown in cellars, in sheds, in hotbeds, or sometimes in the open air, the great essential being a uniform degree of temperature and moisture. Our space is too limited here to give the necessary cultural directions, but these are published in book or pamphlet form.

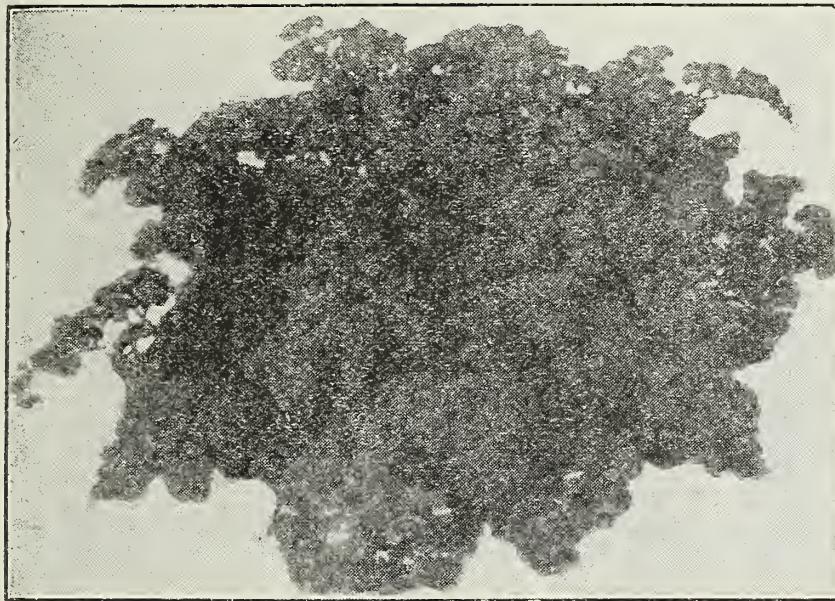
PURE CULTURE MUSHROOM SPAWN. By a newly discovered process of selection and grafting the spawn is scientifically propagated so that large, vigorous, and finely flavored mushrooms are reproduced. The sort we offer is earlier, more productive and a marked improvement on wild spawn, either French or English. Brick (about 1½ lbs.), postpaid, 35c; 5 bricks, not prepaid, \$1.25.

Mustard Mustard is not only used as a condiment but the green leaves are used as a salad or cut and boiled like spinach. Sow as early in the spring as the ground will permit, in drills about eighteen inches apart, covering one-half inch deep. For succession, sow every few weeks till autumn. Water freely. In the South the seed may be sown in autumn and the plants used early in the spring as a salad and for greens.

Southern Giant Curled The leaves are large, light green with tinge of yellow, much crimped and frilled at edges. The plant is upright or slightly spreading in growth. This variety is highly esteemed in the South for the market as well as the home garden on account of its vigorous growth, hardiness and good quality. Seed small, reddish brown to nearly black. Giant Pkt. 10c; Oz. 15c; ¼ Lb. 30c.

Okra or Gumbo The young seed pods are used in soups, stews, catsups, etc. Highly esteemed in the South. After danger of frost is past, the ground being warm and in good condition, plant in rows about two and one-half feet apart, covering with about an inch of fine soil firmly pressed down. When about three inches high, thin to about one foot apart in the row. Cultivate and keep free from weeds. The pods are in best condition for use when from one to three inches long.

Dwarf Green The plants are about three and one-half feet high and very productive. The pods are of medium length, greenish, quite thick, slightly corrugated, tender, and of good quality. Giant Pkt. 10c; Oz. 15c; ¼ Lb. 30c.



Champion Moss Curled

ing and flavoring, and a handsome decorative plant. The leaves are very finely cut and so closely crisped or curled as to resemble bunches of moss. Owing to its uniformly fine deep green color and very attractive foliage, this is one of the most popular sorts for both the market and home garden. Giant Pkt. 10c; Oz. 15c; ¼ Lb. 30c.

Hamburg or Rooted The root is the edible portion of this variety and resembles a small parsnip both in color and shape. The flesh is white, a little dry and in flavor is similar to celeriac. The foliage is practically the same as that of plain Parsley. The roots can be dug late in the fall and stored in sand for winter use. They are extensively used for flavoring soups and stews. This variety is sometimes called Turnip Rooted. Giant Pkt. 10c; Oz. 15c; ¼ Lb. 35c.

PARSLEY

This well-known vegetable is very useful for flavoring soups and stews and for garnishing. The green leaves are used for flavoring or they may be dried crisp, rubbed to powder and kept in bottles until needed.

Parsley succeeds the best on rich, mellow soil. The seed is even slower than parsnip in germinating and should be sown as early as possible in the spring, in drills one to two feet apart, covering not more than one-half inch with fine soil firmly pressed down. When the plants are well up thin eight to twelve inches apart in the row. When the plants of the curled varieties are about three inches high cut off all the leaves; the plant will then start a new growth of leaves which will be brighter and better curled and later, if these turn dull or brown they can be cut in the same way; every cutting will result in improvement.

Plain The leaves of this variety are flat, deeply cut but not curled. Very desirable for flavoring soups and stews and for drying. It is a favorite on account of its very dark green leaves as well as its hardiness of plant. The curled sorts are more extensively used for garnishing. Giant Pkt. 10c; Oz. 15c; ¼ Lb. 30c.

Champion Moss Curled This is a vigorous compact growing variety, excellent for garnish-

ing and flavoring, and a handsome decorative plant. The leaves are very finely cut and so closely crisped or curled as to resemble bunches of moss. Owing to its uniformly fine deep green color and very attractive foliage, this is one of the most popular sorts for both the market and home garden. Giant Pkt. 10c; Oz. 15c; ¼ Lb. 30c.

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PARSNIP

The value of the Parsnip as a culinary vegetable is well known but is not generally appreciated at its full value for stock feeding. On favorable soil it yields an immense crop of roots, more nutritious than turnips and very valuable for dairy stock.

Parsnips are usually grown on deep, rich, sandy soil, but will make good roots on any soil which is deep, mellow, and moderately rich. Fresh manure is apt to make the roots coarse and ill shaped. As the seed is sometimes slow and uneven in growth, it should be sown as early as possible in drills two and one-half feet apart; cover one-half inch deep and press the soil firmly over the seed. Give frequent cultivation and thin the plants to six inches apart in the row.

Hollow Crown or Guernsey An excellent variety for the table. The roots are long, with smooth white skin, uniform in shape, tender, and of the best quality. The variety is easily distinguished by the leaves growing from the depression on top of crown of the root. Giant Pkt. 10c; Oz. 15c; ¼ Lb. 30c.

PUMPKIN

Pumpkins are less sensitive than melons or cucumbers to unfavorable conditions of soil and climate but are cultivated the same, though on a larger scale. They are raised between hills of corn or in fields by themselves, but more properly belong to the farm than the garden as they readily mix with and injure the quality of the finer squash. After danger of frost is over plant the seed in hills eight to ten feet apart each way, dropping about a dozen seeds in a hill. The soil should be made as rich as possible. If planted with corn two or three seeds a rod apart each way will be sufficient. When danger from bugs is past, thin to three plants to a hill.

Large Yellow The pumpkin most extensively used for feeding stock; also used for making pies. It grows to a large size and varies in shape from nearly round or slightly flattened to quite long. Flesh deep, rich yellow, fine grained, and highly flavored. This variety is often planted with corn. It is known also as Field Pumpkin. Giant Pkt. 10c; Oz. 15c; ¼ Lb. 30c.

Sweet Cheese or Kentucky Field The fruits are flattened, with the diameter usually about twice the length. The skin is mottled light green and yellow, changing to creamy yellow when mature. The flesh is yellow, tender, and of excellent quality. Giant Pkt. 10c; Oz. 15c; ¼ Lb. 30c.

Don't fail to utilize all that ground of yours.

PEAS

For early peas the soil should be light and warm, but for general crop a moderately heavy soil is better. Fresh manure and very rich or wet mucky soil should be avoided, as they cause a rank growth of vine at the cost of the quality of the peas, furthermore such soil is often the cause of early sorts maturing unevenly.

Sow as early as possible a few of some early variety in warm, quick soil, prepared the fall before, planting in double rows six to eight inches apart and two and one-half to four feet between the double rows. The general crop can be delayed until later, but we have met with better success from sowing all the varieties comparatively early, depending for succession upon selecting sorts that follow each other in maturity.

The peas will give quicker returns if covered only one inch deep and where earliness is most important they may be treated in that way. Larger pods and more of them will be produced if the seed be planted in trenches 3 to 6 inches deep and covered with only 1 or 2 inches of soil. When the plants are five or six inches high fill the trench level with the surface. This will secure deep rooting, prevent mildew and prolong the bearing season. If the peas be covered to the full depth at first, or if water be allowed to stand in the trenches they will not germinate or grow well.

The wrinkled varieties are more sensitive to cold wet weather than the smooth seeded sorts but are of superior quality. All varieties growing more than one and one-half feet do better if staked up or bushed when four to six inches high. This support is usually given by sharpened branches of trees set between the double rows. The crop should be gathered as fast as it is fit for use. If even a few pods begin to ripen, not only will new pods cease to form, but those partly advanced will stop growing.

Notice—If Peas and Peanuts are wanted sent Parcel Post add 5c for first lb., 1c for each additional lb.

First and Best This is the earliest and most even strain of white, extra early pea, maturing so well together

that sometimes a single picking will secure the entire crop. The vines are vigorous and hardy, of medium height, about two and one-half to three feet, bearing three to seven straight pods of good size, about two and one-half to two and three-fourths inches long, each containing five to seven medium sized, smooth peas of fair quality. Seed small, smooth, yellowish white. The stock we offer is much superior to most on the market and more even than similar strains sold as Extra Early, Rural New Yorker, and Improved Early Daniel O'Rourke. Lb. 25c; 5 Lb. \$1.15.

Earliest of All or Alaska We have a stock of this smooth blue pea of unequalled evenness in growth of vine and early maturity of pods which are filled with medium sized, bright green peas of good flavor. The vines are of medium height, about two and one-half to three feet and of distinctive light color. The pods are of good size, about two and one-half to two and three-fourths inches long. Seed small, smooth, and bluish green in color. This sort matures all of its crop at once and is an invaluable variety for market gardeners and canners. Lb. 25c; 5 Lb. \$1.15.

Thomas Laxton A very early wrinkled variety of great merit. The vines are vigorous, of medium height, about three feet, similar to those of Gradus, but darker in color, hardier, and more productive. The pods are large, often four inches long, with square ends, similar to but larger, longer, and darker than those of Champion of England and as uniformly well filled. The green peas are very large, of fine deep color and unsurpassed in quality. One of the very best sorts for the market and home garden. Lb. 30c; 5 Lb. \$1.40.

Gradus A very early, wrinkled pea. The vines are similar in appearance to Telephone but of medium height, only about three to three and one-half feet. The pods are very large, about four and one-fourth inches long, very nearly as large as those of Telephone, uniformly well shaped, pointed, handsome, and more attractive than those of the first earlies. The peas are very large, of splendid quality, and beautifully light green color which they retain after cooking. Practically the same as Prosperity. Lb. 35c; 5 Lb. \$1.60.

American Wonder The earliest of the dwarf, wrinkled varieties. The vines are about nine to twelve inches high and produce a good crop of well filled pods of medium size, about two and five-eighths to two and three-fourths inches long, containing five to eight large peas which are exceedingly sweet, tender, and well flavored. Seed medium sized, generally flattened, wrinkled, and pale green. Lb. 30c; 5 Lb. \$1.40.

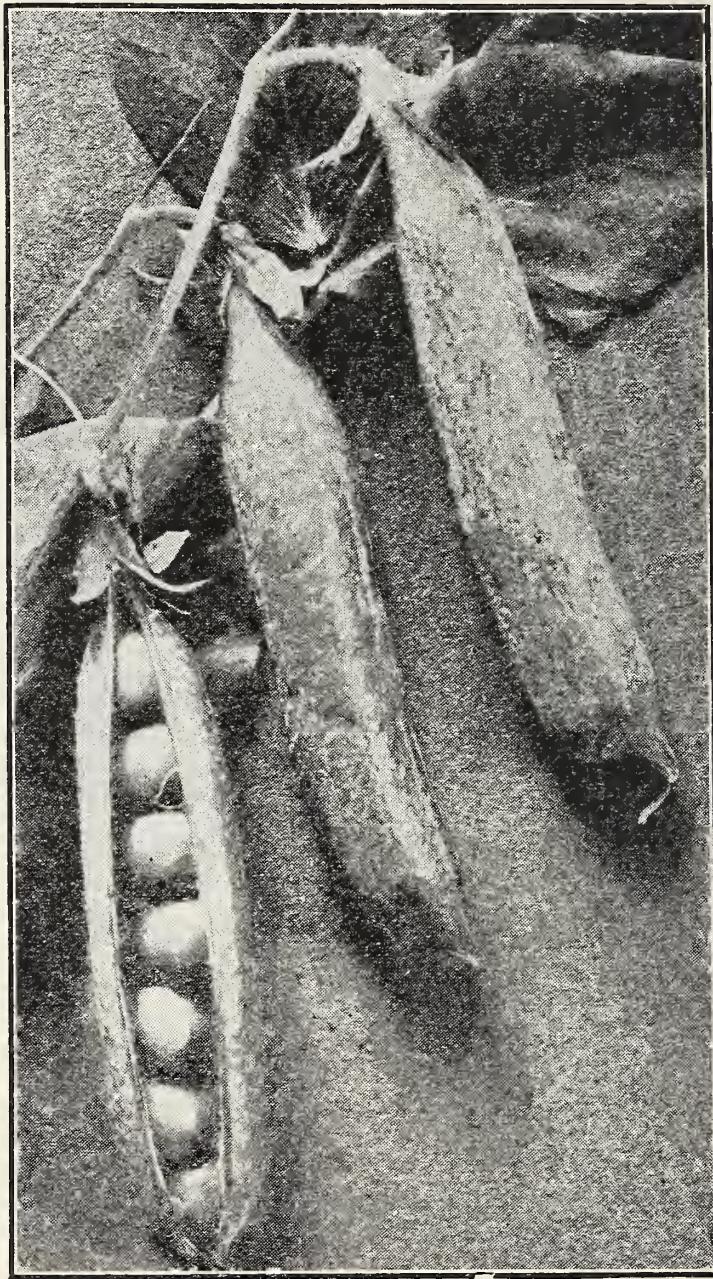
Nott's Excelsior The best very early, dwarf pea. It combines the good qualities of American Wonder and Premium Gem peas. The vines are larger and more productive than American Wonder and earlier than Premium Gem and average about twelve inches high. The pods are medium sized, about two and three-fourths inches long. The peas, in sweetness and quality, are unsurpassed. Seed medium sized, wrinkled, green and somewhat flattened. A most desirable early sort for the market gardener and unsurpassed for the home garden. Lb. 30c; 5 Lb. \$1.40.

Market Gardeners' Pride A green variety of medium height.

An Extra Early About two and one-half to three feet, with long, broad pods, about two and three-fourths to three inches long, which are abundantly produced and well filled to the ends. This pea is used very extensively by market gardeners because of its productiveness and fine appearance of its pods, and is popular with consumers on account of its quality. It is also largely used by canners. Lb. 35c; 5 Lb. \$1.60.

Laxtonian This very handsome wrinkled pea is the largest podded of the dwarf varieties on our list. The beautiful dark green pods are similar to Gradus in shape and splendid quality, are very nearly as large in size and often mature a little earlier. The vines are vigorous and productive, averaging fifteen to eighteen inches high; foliage dark green; pods about four inches in length. Seed light green, large, wrinkled, flattened, irregular in shape. Lb. 35c; 5 Lb. \$1.60.

Premium Gem (Improved Little Gem) A desirable early green wrinkled dwarf variety similar to but better than McLean's Little Gem. The vines are very productive, fifteen to eighteen inches high. The pods are of medium size, about two and three-fourths inches long, crowded with six to eight large peas of fine quality. Seed green, large, wrinkled, often flattened. Lb. 30c; 5 Lb. \$1.40.



Earliest of All or Alaska

Little Marvel An excellent dwarf sort for the market and home garden. The pods average a little longer than those of Premium Gem, are more attractive in shape and color and the peas are of superior quality. The vines are sturdy, nearly eighteen inches high, heavily set with straight, deep green pods, square ended at the bottom and nearly three inches in length. Its season is about the same as Premium Gem. Seed large, green, wrinkled. Lb. 35c; 5 Lb. \$1.60.

Peter Pan This new, large podded, early wrinkled pea is in great favor with market gardeners in all sections. The handsome large pods, which are well filled with big peas of delicious flavor, make it a good seller on the market stall. The vines are extremely vigorous, growing only fifteen to eighteen inches high, with dark green foliage, and produce a wonderful crop of pods. Peter Pan is one of the earliest wrinkled peas, bearing its dark green pods about the same time as Prosperity or Gradus, but a much heavier cropper and of quality equally as good. Lb. 40c; 5 Lb. \$1.85.

PEAS—Continued

Delicious is a favorite for a general crop on account of the strong vines, large peas and pods. A heavy cropper. Vines are strong, vigorous, covered with large pods. Peas wrinkled, vines very branching, about two and one-half feet tall, often twenty pods to a vine; quality is excellent. Our stock has been carefully selected and will run remarkably true. One of the best. Lb. 50c; 5 Lb. \$2.25.

Alderman This is in many respects the very best Telephone type. The vines are tall growing, about four and one-half to five feet high, dark green, vigorous, and exceedingly productive. The pods are of largest size, often five to five and one-half inches long, dark green, similar to but a little larger and a shade darker in color than those of Duke of Albany and about the same in season. The peas are of largest size and unsurpassed in quality. Market gardeners are demanding the large podded, dark colored sorts which retain their fine appearance even after shipping a long distance. The Alderman answers these requirements and we recommend it unreservedly. Lb. 30c; 5 Lb. \$1.40.

LATER VARIETIES

Cincinnati Market This is the leading pea with market gardeners whose trade appreciates fine appearance and high quality. The vines are tall and vigorous, growing about four feet high, with large, coarse, light colored leaves, and producing an abundance of pointed pods of largest size, often four and one-half to five inches, long, attractive bright green, filled with very large peas which are tender, sweet, and of excellent flavor and is one of the best sorts for either home or market Lb. 40c; 5 Lb. \$1.85.

Peanuts can be raised with but little expense, and are an exceedingly productive and paying crop. They are planted in much the same manner as potatoes, and require but little care beyond hillling up the young plants.

PEPPER

NOTICE—Prices quoted on Pepper Seed includes Postage.

Peppers are most largely used for seasoning meat and vegetable dishes as well as for salads and mangoes. They are used also for making chow chow and chili sauce.

The culture is the same as for egg plant and the plants need quite as much heat to perfect them. Sow seed early in hotbed, or about middle of spring in open seed bed, the soil being light and warm. When three inches high transplant in rows about two and one-half feet apart, and two feet apart in the row. Cultivate and keep free from weeds. Guano, hen dung, or any other bird manure hoed into the surface soil when the plants are about six inches high, will undoubtedly increase the product.

Red Chili A late variety. The pods are bright, rich red, about two inches long, one-third to one-half inch in diameter at the base, tapering to a sharp point and exceedingly pungent when ripe. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.50.

Long Red Cayenne A well-known medium early variety having a slender, twisted, and pointed pod about four inches long. The color is deep green when fruit is young, bright red when ripe. The flesh is extremely strong and pungent. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.50.

Ruby King An improved American variety, very large and attractive. The plants are about two and one-half feet high, vigorous, compact, and productive. The fruits are often four to four and one-half inches long and of deep green color when young, bright red when ripe. The flesh is thick and mild flavored. One of the best varieties for mangoes, or stuffed peppers. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.50.

Royal An improved variety of the Ruby King type with the deep ridges eliminated, exceptionally smooth and glossy. Fruits good size often four inches long, deep green color when young, bright red when ripe, thick flesh and mild. The best Mango yet introduced. Warranted the best, most profitable market sort. Giant Pkt. 10c; Oz. 60c; $\frac{1}{4}$ Lb. \$2.25.

Pimento The fruits of this very productive sort are exceptionally smooth and glossy, of good size, medium length and attractive color. The flesh is very thick and solid, mild, and of very fine flavor. Desirable not only for salads and stuffed peppers but it is also the sort used largely by canners. The plants are vigorous and upright, about two to two and one-half feet high, with short, broad, dark green leaves. The fruits are deep green when young becoming deep red as they mature. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.50.

Giant Crimson The fruits of this very desirable sort are of the largest size, ripen earlier than any of the other very large sorts and average heavier, as the flesh is exceptionally thick. The plants are vigorous and upright, about two and one-half to three feet high, larger than those of Chinese Giant and more productive. The color is deep green when fruit is young, deep crimson when matured. The flavor is mild. One of the very best sorts for salads and large mangoes. Giant Pkt. 10c; Oz. 50c; $\frac{1}{4}$ Lb. \$1.90.

Large Sweet Spanish A late maturing and attractive, red, sweet pepper. The plants are about two and one-half feet high, upright, very compact, vigorous, and productive. The fruits are very large and long, frequently seven inches in length and about two inches in diameter, with very thick, mild flesh of excellent quality. The color is deep green when fruit is young, rich red when ripe. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.50.

Duke of Albany A very large, wrinkled pea similar to Telephone in growth and season but darker in color of foliage and pods. The vines are tall, about four and one-half to five feet high, vigorous, and strong growing. The pods are of largest size, often four and one-half to five inches long, straight, and thick, borne in great profusion and when in condition for picking, of a deep green color. In many localities this variety is sold as an improved strain of Telephone. Its productiveness and fine color make it a very profitable sort for market gardeners while its splendid quality should give it a place in the home garden. Lb. 30c; 5 Lb. \$1.40.

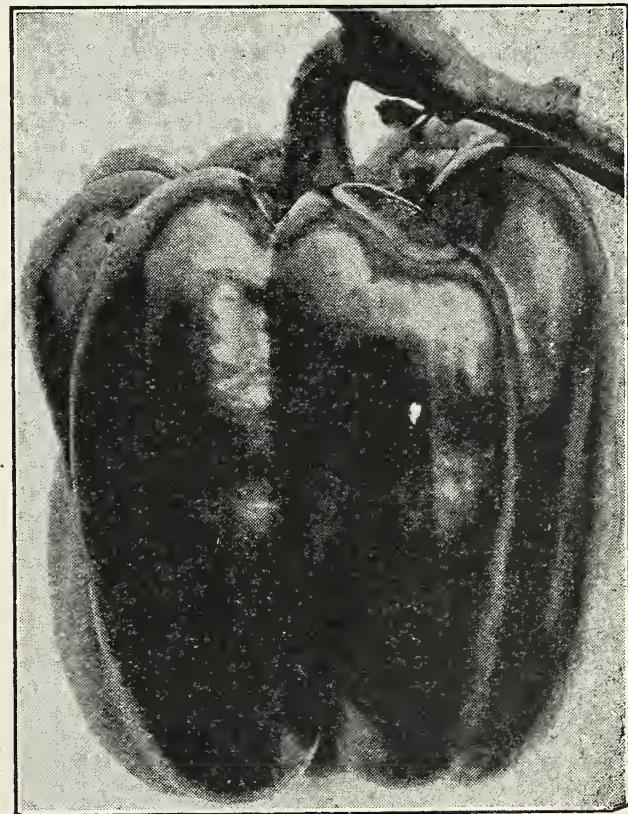
Telephone This has become the leading pea with market gardeners whose trade appreciates fine appearance and high quality. The vines are tall and vigorous, growing about four feet high, with large, coarse, light colored leaves and producing an abundance of pointed pods of largest size, often four and one-half to five inches long, attractive bright green, filled with very large peas which are tender, sweet, and of excellent flavor. It comes into use soon after the Premium Gem and is one of the best sorts for either home or market. Lb. 30c; 5 Lb. \$1.40.

Melting Sugar

(Edible pods) We consider this the best of the edible-podded sorts in which the pods are used when half grown and are cooked in the same way as snap beans. The pods of Melting Sugar are very large, four to four and one-half inches long, broad, often curved or twisted, and when young, stringless, very tender, and finely flavored. The variety we offer, sometimes called Mammoth Melting Sugar, is rather late maturing, very prolific, strong growing, about four to five feet high, with large light colored foliage. Seed medium to large, smooth, round, light yellowish white in color. Lb. 35c; 5 Lb. \$1.60.

Spanish. This variety is smaller and sweeter than the common, or Virginia. Plants grow upright and strong, and are easily harvested. Lb. 30c.

Virginia. This is the common peanut grown in the South. Lb. 30c



M. G. Seed Co.'s Royal.

Superior Seed Potatoes

perishable nature of seed potatoes and market fluctuations. ask for firm prices when interested.

Culture Any good soil will produce Potatoes, but a sandy loam is best. Make furrows of good depth, 3 feet apart; drop the cut-seed pieces about 8 or 10 inches apart. If grown in hills, one or two pieces of potatoes, containing one or more eyes in each piece, are placed in each hill, which are made 3 feet apart each way. Cover the seed four inches, but not so deep in wet, cold land. When the sprouts appear, cultivate and hoe to keep the soil free and clear of weeds. As the vines increase, draw earth around them, forming a slight ridge. Just as soon as the bugs appear use Paris Green. One peck will plant about 100 feet of row, or 100 hills. Ten bushels are required to plant an acre.

By planting Our Northern Grown Seed you are assured of Early Maturity, Increased Yield and a Vigorous Growth. To produce healthy stock we use first-class potato land, nothing but pure, well-matured, good-sized seed. The seed potatoes are very carefully handled when digging and barreling, that they may not be bruised or otherwise injured. Our seed potato stocks should not be compared with potatoes picked up on the market, named at a guess, and sold for seed.

M. G. Seed Co's. Dakota. Early Ohio is ahead of the Early Rose, and is a general favorite with potato growers and marketmen alike, and is the most profitable Potato they can possibly grow. The sprouts are very strong, the vines grow erect and are easy to cultivate. Maturing early, it brings the highest prices, and the land can be used for another crop after it; does well on any soil suitable for Potatoes. The tubers grow compact in the hill, are easily dug—nearly every Potato is of marketable size; has few eyes, which are even with the surface. With heavy manuring, close planting, and good culture, a very large and profitable crop can be expected. Cooks dry and mealy.

True Early Rose The Early Rose is the old standard early potato; rosy blush skin, white flesh; productive, and of excellent flavor; a fine keeper.

Six Weeks One of the best of the extra-early varieties and is very popular with the large potato growers on Long Island. The tubers in shape are "round-oblong"; skin white and smooth; shallow eyes; the flavor is excellent and the flesh is always dry and mealy.

Carman No. 1 Size medium to large; thick and slightly flattened, a good tuber, being nearly five inches long, three and a half inches broad, and one and a half inches in thickness; color of skin very pale, nearly white; eyes few.

Carman No. 3 Enormously prolific, averaging nearly a pound apiece; very uniform in shape, white skinned, few and shallow eyes; flesh snow-white and of exceptionally fine cooking qualities.

The necessity for changing seed often is universally admitted by all well-posted growers, especially when the best seed can be had at so little additional outlay. Owing

to the perishable nature of seed potatoes and market fluctuations, ask for firm prices when interested.

Early Triumph It is from seven to ten days earlier than the Ohio, and that often means a difference of many dollars in the crop. The Potato is good size. Skin is red, flesh is very white and firm. It is productive.

Irish Cobbler Form oval and round; skin lightly netted, creamy white and having few eyes, which are quite shallow—some even with the surface. Flesh pure white and of the finest quality—not exceeded by any early variety. Keeps perfect until spring, when it starts large, strong, and vigorous sprouts. Its strong growth, earliness, uniformity, large yield, fine quality, and very handsome appearance have brought the Extra-Early Cobbler right to the front as a profitable variety for market or home use.

Beauty of Hebron Very rapid and vigorous grower, ripening as early as *Early Rose*, which it resembles but frequently exceeds in productiveness and excellence for table use, either baked or boiled.

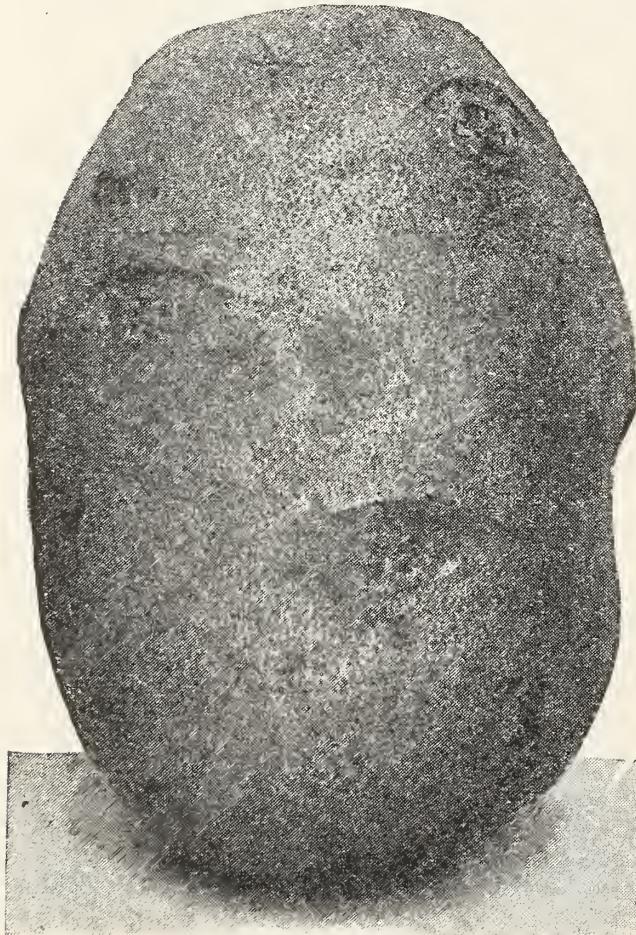
White Star A medium early variety of fine quality and appearance; large, oblong, uniform sized tubers, remarkably productive.

Hoosier Boy The vines are wonderfully vigorous, nearly blight and insect proof, quite stiffly erect, and the tubers lie closely together in the hill. Abundant deep green foliage, capable of withstanding heat and drought. The tubers are handsome, oblong, thick, and round in form, holding thickness well out to the ends; few and shallow eyes; skin pure white, quite thin, but firm and tough, readily pared with a minimum of waste, while the table quality is of the choicest, the flesh being pure white, dry, and floury.

Selected Seed Potatoes in the above list of standard varieties, to be shipped by express or freight at purchaser's expense.

We being headquarters for Seed Potatoes, know we are in a position to save you money on them. Write for prices on same.

We make a specialty of Genuine Seed Potatoes and handle annually more than any Seed Establishment in our City, thereby are in position to give quality and lowest price.



Irish Cobbler



Early Ohio

Seed Sweet Potatoes New Jersey Grown—Carefully dug, handled and stored over winter for us, most perfect and prolific hills at the time of digging. We have been selling this stock, and find the potatoes much drier and sweeter than those grown from Ohio or Western grown seed. We repack before shipping, but we wish it distinctly understood that customers take all risks after we deliver in good condition to express or railroad company here. We book orders at any time, but do not ship until about planting time. Hampers, 1 bu. Order early.

Yellow and Red Jersey, Red Bermuda, and Southern Queen. Write for prices. Ready for shipment about April 1.

RADISH

For forcing sow in hotbed or under glass in rich, sandy soil made perfectly level. Scatter evenly over the surface from fifty to one hundred seeds to the square foot and cover with one-half inch of soil sifted on. Careful watering to keep soil moist, even, moderate temperature, and good ventilation are required for rapid and best root development. If the bed is a good one the whole crop can be marketed in twenty-one to forty days after planting.

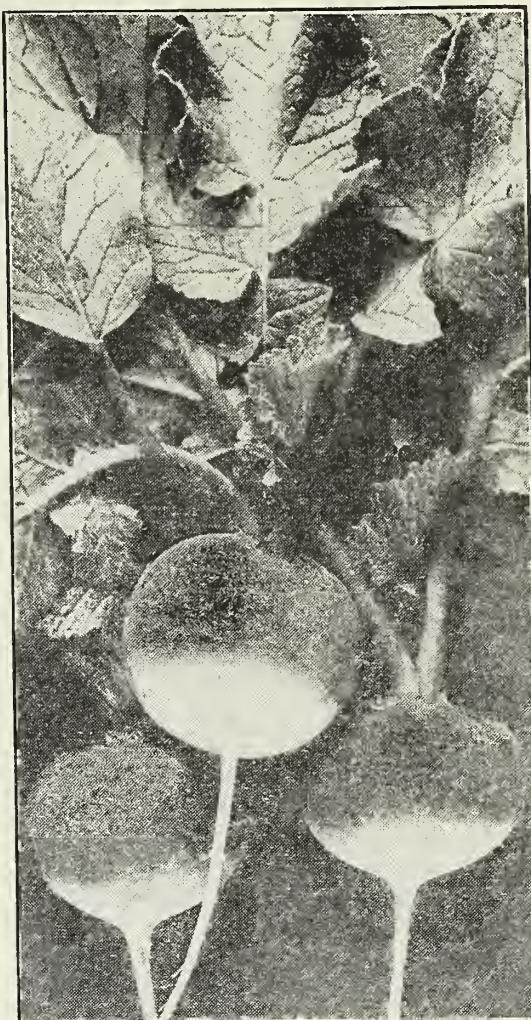
For open ground culture, sow in rich, sandy soil as soon in the spring as it is fit to work, in drills twelve to eighteen inches apart and thin out the plants to prevent crowding. A good dressing of nitrate of soda will greatly stimulate growth and insure tender, brittle roots. Successional sowings from one week to ten days apart will keep up a supply. After the hot weather of summer begins, it is better to sow the summer and winter varieties as they do not become tough and stringy nor pithy so quickly as the early sorts.

We have been very careful to secure the very best seed possible and there is none sold under other names which is better than that of the varieties we offer.

NOTICE—Prices quoted on this Page include Postage.

M. G. Seed Co's. Red Globe The smallest reliable forcing radish. The tops are distinctly small. The roots are round or slightly flattened, very deep red in color and of the best quality. It remains in condition for use the longest of any of the first early forcing sorts and is a favorite where a very small, deep red radish is desired. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Early Scarlet Turnip White Tipped One of the best early radishes for the home garden and a great favorite in large markets for early planting outdoors. It is but little later than Early Scarlet Turnip, White Tipped, Forcing and will give entire satisfaction where extreme earliness and small tops are not the chief consideration. The roots are nearly round, slightly flattened on the underside. The color is very bright, deep rose-carmine scarlet with a distinctly white tip. The flesh is white and of the best quality. The stock we offer is exceptionally attractive in its splendid coloring. The scarlet is unusually deep and affords a distinct contrast with the large, clear white tip. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.



Early Scarlet Turnip, White Tipped

Early Scarlet Turnip White Tipped, Forcing A beautiful variety, rose-scarlet with white tip, has small tops and may be planted closely. It is most attractive in appearance and cannot fail to give satisfaction as a forcing radish. This is very popular as a market sort. It is sold sometimes as Rosy Gem and Rapid Forcing. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Early Scarlet Globe The roots of this variety are slightly olive shaped and are a rich, bright scarlet in color. The flesh is white and tender. We especially recommend this to gardeners as a large, first early forcing radish. It is also desirable for first early planting outdoors for the home garden and market. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Early White Turnip This is an early white radish, a little more flattened than Early Scarlet Turnip, and as offered by us, of smaller size and sometimes a little earlier maturing. While used mostly for early outdoor planting, its very small tops and quick growth make it suitable for forcing. The roots are about one inch in diameter when mature. The flesh is pure white, crisp, and tender. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Crimson Giant Turnip A round radish of exceptionally large size for so early a variety. The roots are nearly globe-shaped, of beautiful crimson-carmine color and most excellent quality, often growing one and three-fourths inches in diameter before becoming pithy. It is a desirable variety for general outdoor planting, and also suitable for forcing where a very large round radish is wanted. It remains in condition a remarkably long time for so early a radish. Giant 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Early Long Scarlet, Forcing This is a standard, most excellent sort either for the home garden or the market. The tops are short and comparatively small. The roots are smooth, slender, uniform in shape and a very attractive bright carmine-red in color. They grow about one-third out of the ground and continue crisp and tender until fully matured, when they are about six inches long. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Cincinnati Market A desirable market variety with roots similar to Early Long Scarlet Forcing, but averaging longer, deeper red in color and remaining a little longer in condition for use. The roots are slender and before becoming pithy are often six to seven inches long by about five-eighths of an inch in diameter at the shoulder. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Icicle A very attractive, pure white radish, the earliest of the long, white summer sorts and of most excellent quality. The roots when mature are five to six inches long by about one-half to five-eighths of an inch in diameter. One of the most desirable varieties for outdoor summer planting for the home garden and market. It is also adapted for forcing. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

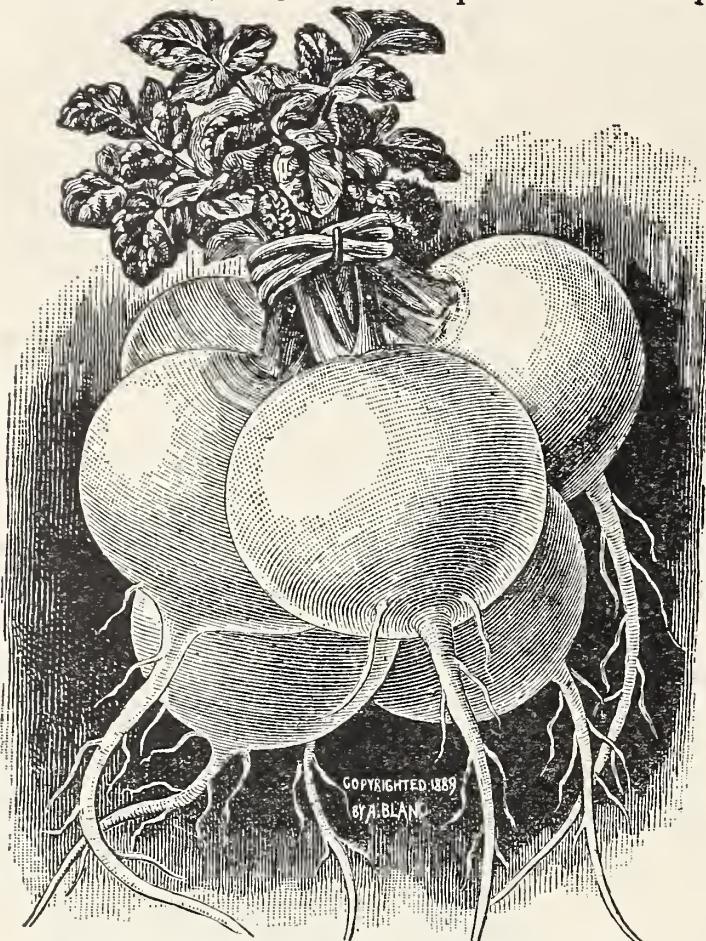


Cincinnati Market

Icicle

RADISH--Continued

NOTICE—Price quoted on this page include postage except when noted.



Market Gardeners' Large White Globe Radish

Early Golden Yellow Oval This sort matures quickly, has small tops and resists the summer heat better than the early scarlet or white kinds. The roots are oval, tapering at the base, and are about one and one-half inches long by about one inch in diameter when mature. The color is bright light yellow, often russeted. The flesh is white, slightly pungent, crisp, and tender. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

Golden Globe This variety is of quick growth, affording crisp and tender radishes even in a very hot climate and is extensively grown in the South. The roots are uniformly globe-shaped, with skin of golden yellow color. They are about two inches long by two and one-fourth inches in diameter when mature. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 35c.

M. G. Seed Co's. A desirable large turnip shaped summer variety. The roots are round, smooth, white, and attractive and are two to three inches in diameter when mature. The flesh is crisp, firm, and rather pungent. Market gardeners use this variety largely for forcing under glass because of its small tops. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

RHUBARB or Pie Plant

Rhubarb, also known as Pie Plant, or Wine Plant, is the earliest spring vegetable and is grown for its leaf stalks which are extensively used for pies and sauce.

Rhubarb succeeds best in deep, somewhat retentive soil and the richer this is and the deeper it is stirred, the better. Sow in drills an inch deep and thin out the plants to six inches apart. In the fall transplant into very highly manured and deeply stirred soil, setting them four to six feet apart each way and give a dressing of coarse manure every spring. The stalks should not be plucked until the second year. When a blossom stalk appears, it should be cut back well into the ground and the plant never allowed to exhaust itself by running to seed. Our seed is saved from selected plants of the Linnæus, Victorie, Giant, and other improved sorts, but like the seeds of fruit trees, rhubarb seed cannot be relied upon to reproduce the same varieties. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

ROOTS—.....by mail, prepaid, 15c. each; by express, not prepaid, 75c. per dozen.

SALSIFY or Vegetable Oyster

One of the most desirable winter vegetables. The roots when cooked are very palatable and nutritious and are served in a variety of ways. The flavor is similar to oysters. Salsify succeeds best in a light, well enriched soil, which should be stirred to a good depth. Coarse and fresh manure should be avoided, as it will surely cause the roots to grow uneven and ill-shaped. Sow early and quite deep, giving the general culture recommended for parsnip. The roots are perfectly hardy and may remain out all winter, but should be dug early in spring, as they deteriorate rapidly after growth commences. Frost does not injure the roots, but before the ground freezes a quantity for winter use may be stored in a pit or in a very cool cellar.

Mammoth Sandwich Island This variety is large and strong growing with long, smooth, white, tapering roots, and is less liable to branch than the other sorts. The tops are grassy. It is invaluable for market gardeners' use. Giant Pkt. 10c; Oz. 20c; $\frac{1}{4}$ Lb. 75c.

SORREL The improved varieties of Sorrel when well grown and cooked like spinach make a palatable dish. Sow in drills early in spring and thin the seedlings to six or eight inches apart in the row. One may commence cutting in about two months and the plants will continue in full bearing from three to four years.

Large Leaved French The best garden variety, having large, pale green leaves of fine quality. Giant Pkt. 10c; Oz. 25c; $\frac{1}{4}$ Lb. 75c.

Don't overlook our Novelty Page.

White Strasburg Even when comparatively small this variety is in good condition for use and continues crisp until matured when the roots are four to six inches long by one and one-half to two inches in diameter. The roots are rather thick at the shoulder and are usually somewhat tapering. They remain in condition for use much longer than the early varieties. This is one of the best large, white later summer sorts for home garden and market. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Early White Giant Stuttgart The roots are large, often four inches in diameter, white, and are usually top shaped. The flesh is white and crisp, and keeps remarkably well, so that those not used in the summer or fall can be stored for early winter use. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

WINTER VARIETIES

Seed for winter radishes should be sown about the first of August in rich, warm, sandy loam, in rows about twenty inches apart, covering half an inch deep. When well up thin to three inches apart in the row and give frequent cultivation. For winter use, the roots should be pulled and packed in damp sand and stored in a cool cellar.

Scarlet China This is an extensively grown variety for fall and winter use. It is known also as Chinese Rose. Their roots are cylindrical, or largest near the bottom, stump rooted, or blunt at both ends. The skin is smooth and of a bright deep rose color. The flesh is white, firm, crisp, and pungent. The tops are moderately large with leaves distinctly cut and divided; leaf-stems tinged with rose. The roots are usually four to five inches long by about one and one-half to two inches in diameter when fully mature, sometimes growing considerably thicker. It is a desirable late maturing garden sort. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

Round Black Spanish The roots are round, sometimes slightly top shaped, three or four inches in diameter. The skin is almost black. The flesh is white, very compact, decidedly pungent, but well flavored. The variety keeps well through the winter. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 20c.

California Mammoth White China The roots of this very large white winter sort grow nine to twelve inches long, by three to four inches or more in diameter just below the shoulder, tapering regularly to the tip. The flesh is firm, crisp, decidedly pungent but well flavored, keeping well through the winter. The variety matures later than Celestial and the roots are not as mild but they attain a larger size under favorable conditions. For table use they are pulled before fully grown. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

Half Long Grey Winter This variety is intermediate in shape between the Round and the Long Black Spanish, and seems to combine the good qualities of both. The roots have grayish black skin and crisp, pungent but well flavored white flesh. They are four to five inches long and one and one-half to two inches in diameter, sometimes approaching stump-rooted form at maturity. Giant Pkt. 10c; Oz. 15; $\frac{1}{4}$ Lb. 30c.

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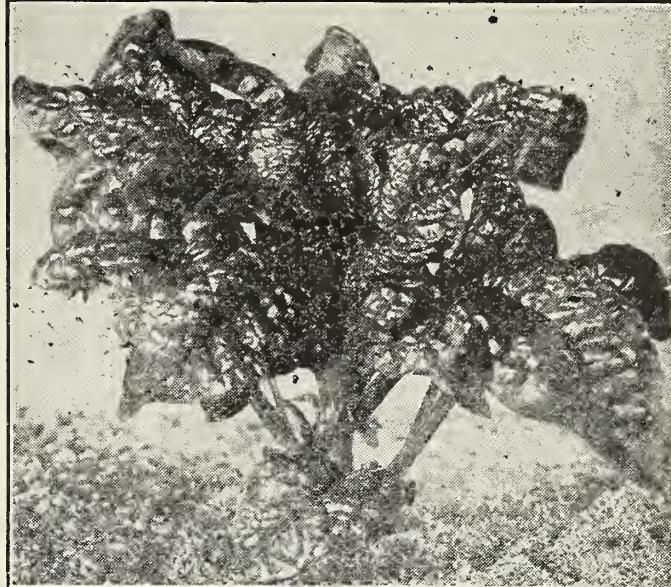
SPINACH

No plant makes more palatable and nutritious greens than spinach when properly prepared. Seed should be planted in very rich ground, the richer the better. Sow in drills sixteen to twenty inches apart and thin to about six inches apart when the leaves are an inch wide. All should be cut before hot weather, while young and tender. For early spring use sow early in autumn and protect the plants with a light covering of leaves or straw, or plant as soon as the land can be worked in the spring. Under favorable conditions the leaves may be large enough for eating in eight weeks. South of Cincinnati spinach can be grown through the winter with very little or no covering.

Savoy Leaved This sort is known also as Bloomsdale and as Norfolk Savoy Leaved. It is a very early variety and one of the best to plant in autumn for early spring use. The plant is of upright growth, with thick, glossy, dark green leaves of medium size, pointed but quite broad, and crumpled or blistered like those of Savoy cabbage. It is hardy and grows rapidly to a suitable size for use, but runs to seed quickly in warm weather. Seed round. This spinach is suitable for the home garden and is much used by truckers. Oz. 10c; $\frac{1}{2}$ Lb. 20c; Lb. 50c.

Long Standing An improved round seeded strain of excellent quality, comparatively late in season but after reaching maturity it remains in condition for use much longer than most sorts. The plant is very large, becoming rather procumbent when mature. The leaves are usually very broad arrow-shaped or rounded, comparatively smooth and dark, rich green. This sort is extensively used by market gardeners. Oz. 10c; $\frac{1}{4}$ Lb. 20c; Lb. 50c.

New Zealand (*Tetragonia expansa*) Unlike true spinach in type and in that it thrives during hot weather and in any soil rich or poor. The tender shoots are of good quality and may be cut throughout the summer. The plant becomes very large and spreading. The leaves are comparatively small, broad, and pointed. Plant three or four seeds in hills two feet apart each way. Germination of the seed can be hastened by soaking in warm water twenty-four hours. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 50c.



Savoy Leaved

SQUASH One of the most nutritious and valuable garden vegetables. The summer varieties come to the table early in the season, while the fall and winter sorts can be had from August until the following spring. The winter varieties are very well adapted for stock feeding and we heartily recommend them for that purpose.

Squash plants are very tender and sensitive to cold and so planting must be delayed until settled warm weather. General methods of culture are the same as for cucumbers and melons, but the squash is less sensitive to unfavorable conditions of soil. Summer varieties should be planted four to six feet apart each way and winter sorts eight to ten. Three plants are sufficient for a hill. In gathering the winter sorts care should be taken not to bruise or break the stem from the squash, as the slightest injury will increase the liability to decay. Winter squashes should be stored in a moderately warm, dry place and the temperature kept as even as possible. For those who desire very early squashes, seed can be planted in boxes, and transplanted.

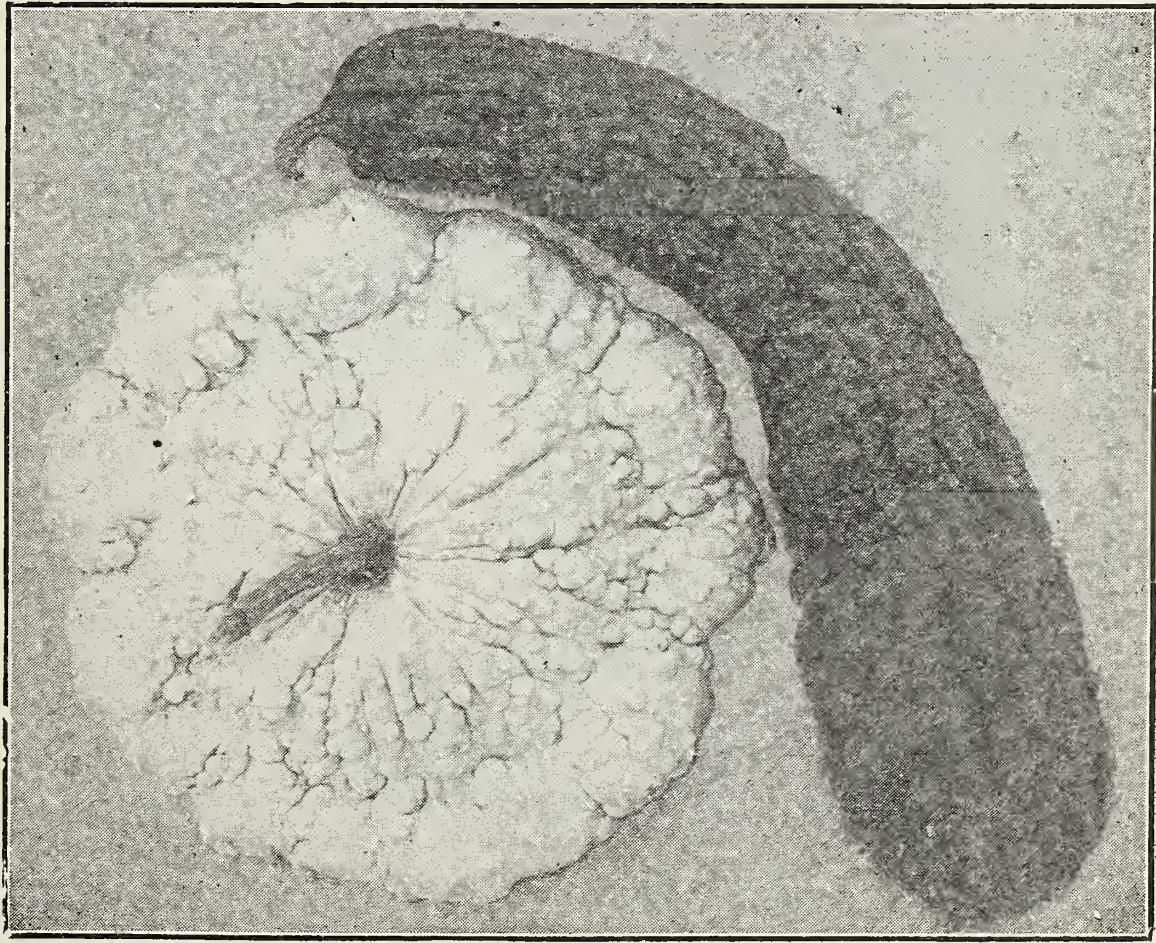
Mammoth White Bush Scallop An early maturing, somewhat flattened, scalloped bush squash, of largest size and the handsomest of the summer varieties for home garden and market. The fruits are uniformly warted and a beautiful, clear waxy white, instead of the yellowish white so often seen in the old Early White Bush Scallop. The stock we offer of this variety is exceptionally true to type. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Mammoth Summer Crookneck The largest and one of the earliest of the crookedneck summer squashes. The vines are of bush habit, large, and more vigorous than Summer Crookneck. The fruits when mature are very large, often one and one-half to two feet long, with exceedingly warted surface. The color is deep yellow. Its large size and attractive color make this variety a favorite with market gardeners as well as for home garden use. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Boston Marrow This is a very productive fall and winter variety of medium to large size, oval shape, and thin skin. It is much used for canning and making pies. The fruits when ripe are bright orange with a shading of light cream color. The flesh is of rich salmon-yellow color, fine grained and of excellent flavor, but not as dry as the Hubbard. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Hubbard One of the best of the winter squashes. The vines are vigorous and very productive. The fruits are large, heavy, and moderately warted, with a very hard shell. The skin is uniformly dark bronze green. The flesh is bright orange-yellow, fine grained, thick, dry, and richly flavored. This squash can be kept in good condition until spring. It is esteemed by many to be as good baked as the sweet potato. Our stock of this standard home garden and market variety is carefully selected in regard to quality of the flesh and color of the shell and is much superior to that sold as Chicago Warted or Warty Hubbard. Giant Pkt. 10c; Oz. 20c; $\frac{1}{4}$ Lb. 60c.

Italian (*Cocozella di Napoli*) The vines are of bush habit and produce large, much elongated fruits dark green at first, but as they mature, becoming marbled with yellow and lighter green in stripes. The fruits are in best condition for the table when six to eight inches long, but can be used when much larger. The young fruits when sliced and fried in oil constitute a vegetable delicacy that is very tender and marrowy. Giant Pkt. 10c; Oz. 20c; $\frac{1}{4}$ Lb. 60c.



Mammoth White Bush Scallop and Mammoth Summer Crookneck

Our sales of spinach seed several tons annually. Why? Quality.

TOMATO

Tomatoes do best on light, warm, not over-rich soil, and success depends largely upon securing a rapid, vigorous, and unchecked growth during the early part of the season. Sow in hotbed or in shallow boxes in the house from six to eight weeks before they can be set out doors, which is when danger from frost is past; when the plants have four leaves transplant into shallow boxes or cold-frames, setting them four or five inches apart; give plenty of air and endeavor to secure a vigorous but steady and healthy growth, so that at the time of setting in the open ground they will be strong and stocky. Even a slight check while the plants are small will materially diminish their productiveness.

Set out doors as soon as danger from frost is over, but before doing so harden off the plants by gradually exposing them to the night air and by the withdrawal of water until the wood becomes hard and the leaves thick and of a dark green color. Transplant carefully and cultivate well as long as the vines will permit. If to be grown without training, the plants are usually set about three to four feet apart each way according to the vigor of growth of the variety.

To insure best results in respect to early ripening as well as the amount and perfection of fruit, it is advisable to train up and trim the vines, especially if the patch is rather small. When the plants have been properly started and are six to ten inches high they will begin to throw out branches. Select the largest and most vigorous of these and pinch off all others except this one and the main stem. Care must be exercised not to pinch off the fruiting branches which, as they appear can be distinguished by the buds that are formed very early. In a short time these two remaining branches will become equally vigorous and as ordinary varieties will grow four to six feet high during the season, they should be securely tied at intervals of about ten inches to a long stake, preferably two inches square, which has been securely set in near the root of the vine.

Fruit will set to almost any height desired if all side branches are kept trimmed off at intervals of a week. By such a method of training and trimming the fruits are kept clear from the ground and with free access of sunlight they ripen much earlier; the vitality, otherwise exhausted in superfluous branches and leaves, is utilized in forming fruits of largest size, greatest perfection of shape and best quality.

All our Tomato seeds are from seed stocks carefully selected. We challenge comparison of our stocks with any offered.

Earliana Our strain of this first early sort is earlier and decidedly superior to much that is sold as Sparks' Earliana, and the extreme earliness of its large, smooth fruits makes it a very profitable tomato for market gardeners, as well as desirable for the home garden. The vines are small but vigorous and productive. The fruits are bright deep scarlet, medium to large, nearly round, and exceptionally smooth for so early a variety. The fruits are borne in clusters near the base of the plant and the bulk of the crop ripens very early, purplish tomato. Giant Pkt. 10c; Oz. 35c; $\frac{1}{4}$ Lb. \$1.25.

Market Gardeners New Success

is the earliest good large purple tomato yet introduced.

Plants exceptionally robust, blight resisting, which increases the possibilities of a perfect stand, if weather conditions are unfavorable.

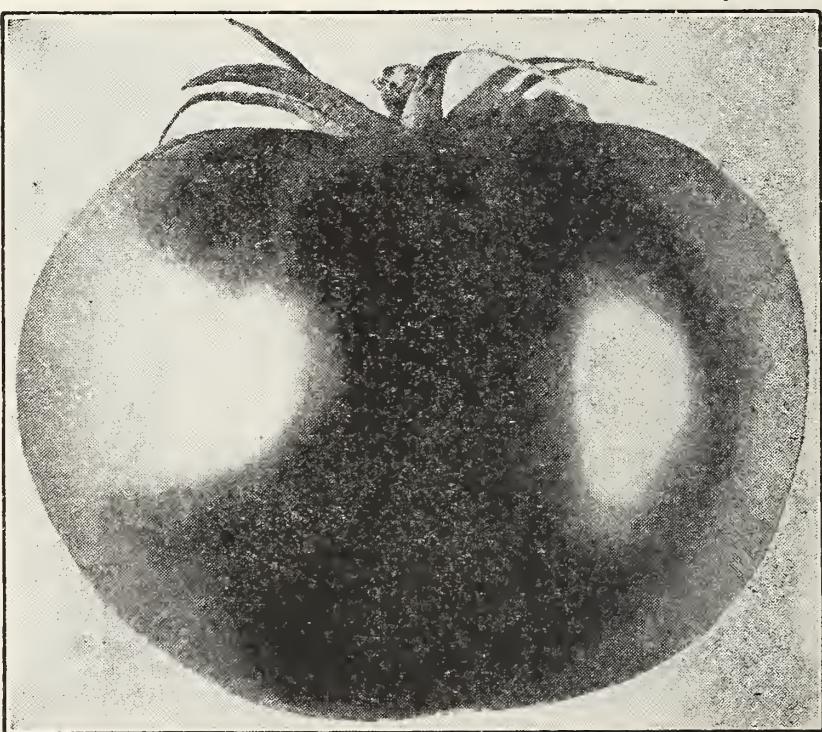
Extensive experiments have proven, Market Gardeners' New Success Tomato to be in a class by itself out-yielding any known variety.

The fruits which are a rich purple, globe shaped, ripens their clusters uniformly, and are free from cracks and blemishes around the blossom end and almost seedless.

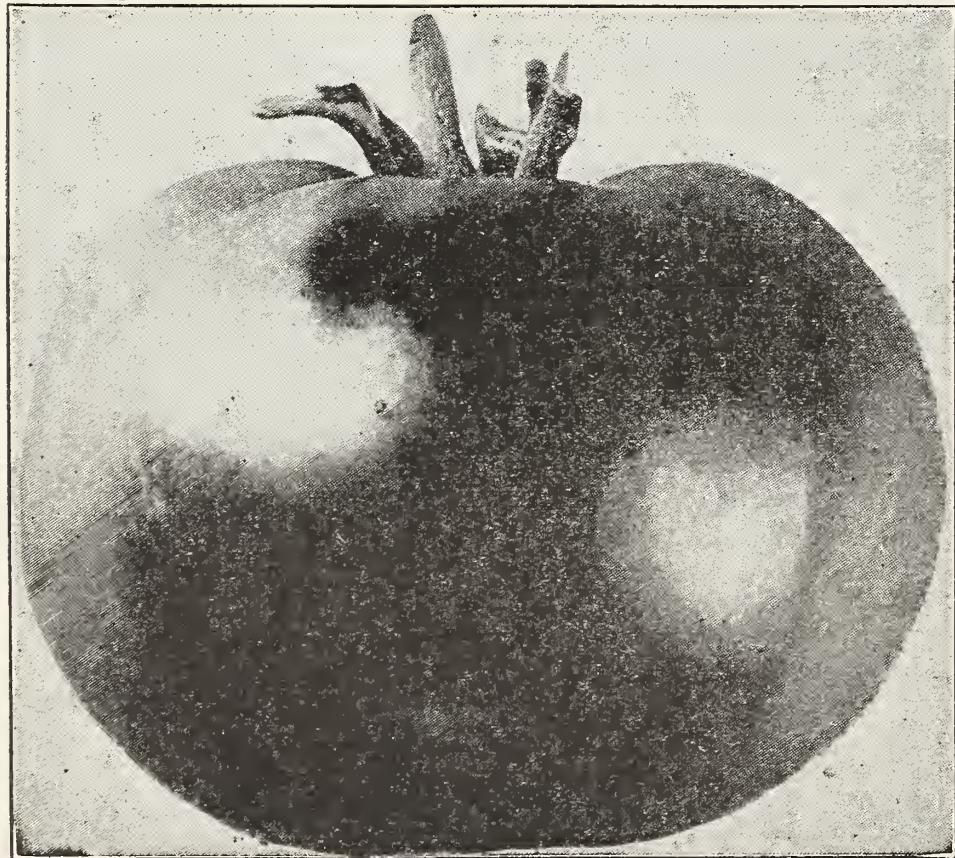
We predict that this variety will prove the best in its class as to quality and money making as it ripens its great clusters of purple fruit evenly, yielding more marketable fruit than any known variety.

Don't hesitate about trying Market Gardeners' New Success Tomato this year, because we can verify all we say about them. Giant Pkt. 25c; Price \$2.00 per ounce postpaid.

M. G. Seed Co's Early Michigan This splendid variety, introduced in 1909, is the largest and best of the early purple tomatoes. The vines are vigorous and very productive. The fruits are very smooth, uniform in size, nearly globe-shaped, firm, and of excellent quality. One of the most valuable shipping tomatoes yet produced. It is also desirable for the home garden and near markets. Giant Pkt. 10c; Oz. 50; $\frac{1}{4}$ Lb. 75c.



Market Gardeners' Early Michigan Tomato



Trucker's Favorite

Ponderosa or Beefsteak A purplish pink tomato of the largest size. The vines are very solid, with exceptionally few seeds, fairly smooth and considered of very good quality, especially by those who prefer a tomato quite free from acid. The variety ripens about midseason. It is very desirable for slicing. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.50.

Dwarf Champion This is sometimes sold as the "Tree Tomato." It is a second early, purplish pink variety, especially desirable where garden space is limited. The vines are about two feet high, vigorous, upright, and compact growing. The fruits are medium sized, exceptionally smooth and of very good quality. Our stock is a very superior strain with more even, smoother fruit than the original. Giant Pkt. 10c; Oz. 35c; Lb. \$1.25.

Tucker's Favorite The choicest large-fruited Tomato. Most regular in form and size, thick-meated and very solid, this is one of the largest smooth tomatoes grown. Of a beautiful purplish color, well ripened throughout, the smooth fleshy fruits always bring the highest prices on our markets where their fine flavor is especially esteemed. The vines are of strong growth, not subject to rust or blight, and bear enormous crops until killed by frost. The fruits continue of large size to the very last and are unexcelled for slicing or cooking. It is a main-crop variety. Giant Pkt. 10c; Oz. 40; $\frac{1}{4}$ Lb. \$1.40.

Stone One of the largest and most solid, main crop or late, bright red varieties. It is unsurpassed for slicing and canning. The vines are large, vigorous, and very productive. The fruits are bright deep scarlet, nearly round or slightly flattened, exceptionally smooth and uniform in size. Our stock is distinctly superior to most of that offered under this name, being larger, smoother, more uniform, and better colored. Giant Pkt. 10c; Oz. 85c; $\frac{1}{4}$ Lb. \$1.25.

A vigorous and very productive. The fruits are very solid, with exceptionally few seeds, fairly smooth and considered of very good quality, especially by those who prefer a tomato quite free from acid. The variety ripens about midseason. It is very desirable for slicing. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.50.

TOMATO—Continued**NOTICE—Prices quoted on this Page include Postage.**

Bonny Best The fruits of this desirable early sort are most attractive in shape and color. The crop ripens more uniformly than any other early scarlet fruited sort, and is of superior solidity and interior color. The vines are vigorous and produce a good crop of exceptionally round and deep fruits, bright deep scarlet in color and of very good quality. One of the best for gardeners whose trade demands fruits of beautiful shape and color. A very good variety for early market and home garden. Giant Pkt. 10c; Oz. 40c $\frac{1}{4}$ Lb. \$1.25.

John Baer An extra early scarlet fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the extra early sorts and are also most attractive in color. They are nearly round, smooth, firm and of excellent quality. It is one of the very earliest to ripen its first fruits and it continues to furnish marketable fruits much longer than other very early varieties. It is an invaluable sort for market gardeners, shippers and canners. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.25.

Yellow Plum Fruits plum shaped, of clear, deep yellow color; flesh yellow and finely flavored. Much esteemed for preserves. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.00.

Yellow Pear Fruits similar to the Red Pear, but of rich, clear, yellow color and quite distinct from the variety sometimes sold under this name. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.00.

TURNIP The value of Turnips and Ruta Bagas for feeding stock in fall and winter is not fully appreciated, as they are much liked by all kinds of stock and serve to keep them in good condition. They should not be fed, however, in large quantities to milch cows, or the flavor of the milk will be disagreeably affected. We earnestly recommend that farmers increase their sowings largely, for we are sure the crop will prove remunerative for stock feeding as well as for table use when the roots are comparatively small.

Both of these wholesome vegetables are very easily affected in their form and flavor, by soil, climate, and mode of culture. The Turnip plant is distinguished from the Ruta Baga by its rougher leaves; the root usually matures earlier and is smoother and more symmetrical. There are a great many varieties, but our list comprises the best for the garden and farm.

For summer use sow early in spring in light, rich, or new soil, in drills one and one-half to two feet apart according to the size of the variety and cover one-half inch deep, or sow broadcast, but in either case be sure to have the ground rich and freshly stirred. Thin early and keep free from weeds so that the young plants will not be checked in growth. Any overcrowding will result in rough and poorly flavored roots. It is important to get the spring and summer crop started very early so that the turnips may have time to grow to sufficient size before hot weather causes them to become tough and bitter.

In the middle and western States sow for fall and main crop from the middle of June to the first of August and in the manner given for spring sowing. In the field, turnips are often sown broadcast, though in most cases better results are obtained by drill culture; good results from broadcast sowing are often obtained on new and burned over land where the weeds are not likely to be troublesome.

Extra Early Purple Top Similar to Extra Early white except that the roots are a little flatter and an attractive purple-red on the upper portion. Well adapted for forcing. All in all, the Milan turnips leave nothing more to be desired in the way of an extra early garden turnip. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 40c.

Early Purple Top, Strap Leaved A very early strap leaved variety, very extensively used for the table. The leaves are few, entire, upright in growth. The roots are flat, of medium size, purple, or dark red above ground, white below. The flesh is white, fine grained, and tender. Roots when in best condition for table use are about two and one-half inches in diameter, but can be grown much larger for stock feeding. This sort is also known as Early Red Top, Strap Leaved. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

Purple Top White Globe This excellent table variety is globular in shape, of good size and very attractive appearance. The roots are large, purple, or dark red above ground, white below. The flesh is white, fine grained, and tender. The roots when in best condition for the table are about three inches in diameter, but can be grown much larger for stock feeding. This sort keeps well for so early a variety and is one of the best for market use. It is also known as Red Top White Globe. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

Cow Horn or Long White This variety is clear white, except a little shade of green at the top of the root, which is long and carrot-like in form, cylindrical but usually ending in a point, and slightly crooked. The roots are often twelve to fifteen inches long by about two and one-half inches in diameter and grow about three inches out of the ground. The flesh is fine grained and well flavored, and for table use is in best condition when roots are about two inches in diameter. Desirable for stock feeding and has obtained considerable favor as a market sort. The variety is of very rapid growth and well adapted for fall and early winter use. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

TOBACCO The seed should be sown as early as possible after danger of frost is over. It is customary to burn a quantity of brush and rubbish in the spring on the ground intended for the seed bed; then dig and pulverize the earth and mix with the ashes, after which the seed may be sown and covered very lightly. When the plants are about six inches high, transplant into rows four or five feet apart each way. Cultivate thoroughly with plow and hoe.

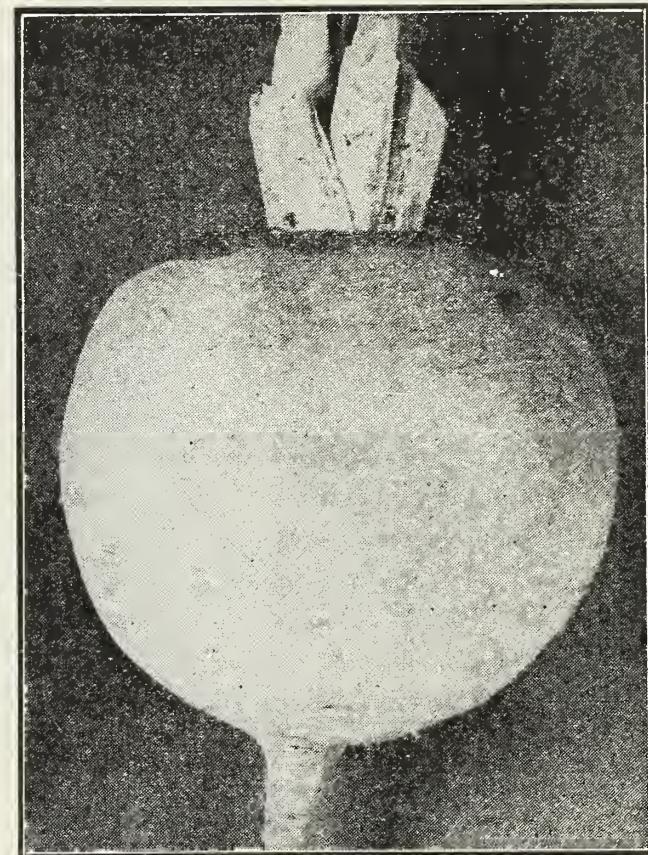
WHITE BURLEY. A favorite for plug fillers and wrappers. Giant Pkt. 10c; Oz. 50c; $\frac{1}{4}$ Lb. \$1.50.

CONNECTICUT SEED LEAF. A hardy cigar variety, well adapted to growing in the middle and northern

Beauty The vines are large, vigorous, and very productive. The fruits are large, purplish pink, exceptionally smooth and uniform in size, very solid and of excellent quality. This is one of the best second early or midseason purplish pink sorts for table use. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.00.

Yellow Husk or Ground Cherry Very sweet, mild flavor; used for preserves. Vines low and spreading. Fruits small, about one-half inch in diameter, enclosed in a loose husk. The seed we offer is that of the true Yellow Ground Cherry, not the purple fruited sort which is scarcely edible. Giant Pkt. 10c; Oz. 40c; $\frac{1}{4}$ Lb. \$1.00.

Golden Queen The fruits are large and smooth, of bright golden yellow color, sometimes with a slight blush of red. They are as smooth and well shaped as the best of the red varieties and are of superior flavor. Giant Pkt. 10c; Oz. 35c; $\frac{1}{4}$ Lb. 90c.



Purple Top White Globe

Seven Top This sort is cultivated extensively in the South for the tops which are used for greens. In many sections it is a favorite green feed for stock and its use like Rape for a pasture crop is quite general. This sort is very hardy and the growth usually continues throughout the winter. The variety is not generally depended on for the root since the tops are produced so abundantly. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

Large Amber Globe One of the best yellow fleshed varieties grown usually for stock feeding. The roots are of large size and of globular shape. The skin is clear yellow except the top which is tinged with green. The flesh is light yellow, fine grained, and sweet. The variety keeps well and is a good cropper. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

Ruta Baga A strain of Purple Top Yellow Top ruta baga of American origin, selected to a

American Purple Top or Improved Long Island much shorter top and than is usually found, while the roots are a little more globular, grow to a large size and are of the finest quality. Excellent for table use and stock feeding. We consider this one of the most desirable sorts. Giant Pkt. 10c; Oz. 15c; $\frac{1}{4}$ Lb. 30c.

States. Giant Pkt. 10c; Oz. 50c; $\frac{1}{4}$ Lb. \$1.25.
HAVANA. The leaf is very thin and is of fine texture. The variety is much used for cigar wrappers. Giant Pkt. 10c; Oz. 50c; $\frac{1}{4}$ Lb. \$1.25.

**A DESCRIPTIVE LIST
OF
CHOICE FLOWER SEEDS
WITH GENERAL DIRECTIONS FOR CULTIVATION**

MOST flowering plants will live in almost any soil, but to give them a fair chance to develop, some care should be taken to make the ground suited to their needs. The soil best adapted for flowering plants generally is a light, friable loam, containing a sufficient amount of sand to render it porous. Many flowers are better if produced on plants of vigorous growth, hence a portion of the garden should be prepared by deep digging, thorough pulverization and liberal enriching with large quantities of well-rotted manure. Since some other varieties produce the largest and finest colored flowers when grown on rather light, poor soil, a portion of the garden should not be enriched.

Cultural directions are given on the packets, and we urge purchasers to study them carefully. While some seeds need special treatment, the following general rules will apply to all. Make the surface of the soil as fine, smooth, and level as possible; do not plant when the ground is wet; cover each lot of seeds to a uniform depth, which should not be more than four to six times the diameter of the seed; press the soil firmly over the seed; plant in rows so that the starting plants can be seen easily; thin out the young plants to prevent crowding, and keep entirely free from weeds.

Very small seeds, such as Portulaca, Canterbury Bell, Foxglove, Petunia, etc., should be merely sprinkled on the surface of the ground, after making it quite smooth with the back of the spade, and barely covered with fine, sifted, light, mellow soil, and afterwards protected from the scorching sun and heavy rains by a cloth, mat, or some green branches stuck around them. If the weather, after sowing, should be dry, it will be necessary to water the places, where the seeds are sown, with a fine spray, regularly, but slightly, every evening, as it is essential that the seeds, during the process of germination, should be kept constantly moist. From a neglect or oversight of this arise most of the failures. As the process of germination is shorter or longer in the different kinds of seeds, the patience of the cultivator is often sorely tried with the seeds of a slowly germinating character.

Plants are usually divided into three classes, Annuals, Biennials, and Perennials. Annuals are plants which normally live but a single season. Biennials are plants living two years; particularly those which do not bear flowers and fruit until the second season. Perennials tend to live from year to year.

ALL FLOWER SEEDS IN PACKETS SENT POSTPAID ON RECEIPT OF PRICE

LIST OF FLOWER SEEDS FOR SPECIAL PURPOSES

PERENNIAL PLANTS. Antirrhinum, Aquilegia, Asters, santhemums (hardy sorts), Coreopsis, Delphinium, Dianthus, Digitalis, Gaillardia (hardy), Geranium, Gypsophila, Panicum (hardy sorts), Bellis, Canna, Campanula, Carnations, Chrysanthemata, Heliotrope, Hollyhocks, Lobelia (hardy sorts), Matriaria, Myosotis, Pansy, Phlox (hardy), Pinks (hardy), Poppy Iceland, Poppy Oriental, Primrose Pyrethrum, Sweet William, Verbena, Violet, Wallflower.

EDGING AND BORDER PLANTS. Abronia Ageratum (dwarf), Alyssum Sweet, Bellis, Candytuft, Centaurea "Dusty Miller," Lobelia, Mignonette, Myosotis, Nasturtium (dwarf), Nemophila, Pansy, Portulaca, Snap Dragon (dwarf), Sweet William, Sweet Peas (dwarf), Violet.

PLANTS FOR BEDDING AND IN MASSES. Adonis, Agrostemma, Amaranthus, Antirrhinum. Asters. Bachelor's Button, Balsam, Cacalia, Calendula, Calliopsis, California

Acroclinium (*Everlasting*) A very pretty, half hardy annual producing white and rose colored, double daisy-like flowers, about one and one-half inches in diameter. These are "Immortelles" so desirable for wreaths and winter bouquets.

Album. Pure White..... Giant Pkt. 10c.
Roseum. Light Rose..... Giant Pkt. 10c.
Mixed..... Giant Pkt. 10c.

Ageratum A beautiful, hardy annual of neat bushy habit. The attractive feathery flowers borne in dense clusters are very useful for bouquets. Very desirable for outdoor bedding and borders, being covered with bloom nearly all summer.

Mexicanum. Light blue; about two feet high. Giant Pkt. 10c.
Imperial Dwarf White. Height ten inches.... Giant Pkt. 10c.
Tom Thumb Dwarf Blue For edging..... Giant Pkt. 10c.
Mixed. Seeds of the above varieties mixed.... Giant Pkt. 10c.

Alyssum The annual varieties can be grown very readily either outdoors or in the house and by cutting back the plants properly an almost constant succession of bloom may be had. Seed can be sown in open ground very early in spring, or may also be sown outdoors in fall.

Sweet (*Maritimum*) Usually not over eight inches high but Little Gem (*Maritimum Compactum*, *Carpet of Snow*) spreading Giant Pkt. 10c.
The plants grow about six inches high. Hardy-annual. Giant Pkt. 10c.

Poppy, Campanula, Canna, Castor Beans, Carnation, Chrysanthemum, Clarkia, Cosmos, Coxcomb, Delphinium, Digitalis, Four O'clock, Gaillardia, Geranium, Heliotrope, Lantana, Larkspur, Linum, Mignonette, Nicotiana, Nigella, Phlox, Petunia, Pinks, Poppy, Salpiglossis, Salvia, Scabiosa, Sunflower (fancy), Stocks, Sweet Sultan, Sweet William, Verbena, Wallflower, Zinnia.

CLIMBING PLANTS. Bignonia, Canary Bird Flower, Clematis, Cobea, Cypress Vine, Gourds, Japanese Hop, Hyacinth Beans, Ipomoea, Ivy, Maurandia, Morning Glory, Nasturtium, Sweet Peas, Thunbergia, Wistaria.

PLANTS SUITABLE FOR POTS. Abutilon, Ageratum, Asparagus, Begonia, Calceolaria, Carnation, Cineraria, Coleus, Cyclamen, Daisy "Shasta," Daisy "Paris," Fuchsia, Geranium, Gloxinia, Heliotrope, Lantana, Mignonette, Mimosa, Mimulus, Petunia (double), Primrose, Smilax, Stocks, Violet. Antirrhinum—(See *Snapdragon*) Aquilegia—(See *Columbine*)

Amaranthus These plants afford brilliant contrasts of color, being useful for tall borders, groups, and foliage effects. The leaves and stems are of different shades of red, blended usually with green; two to three feet high.

Melancholicus ruber. Deep coppery red foliage; very hardy annual Giant Pkt. 10c.
Tricolor. Known as "Joseph's Coat." Especially brilliant if grown in rather poor soil. Giant Pkt. 10c.

Anemone Coronaria (*Wind Flower*) Among the earliest of spring flowers. They are about two inches across, with blue stamens, resemble the single poppy in shape and come in several shades of color. The foliage is deeply cut.

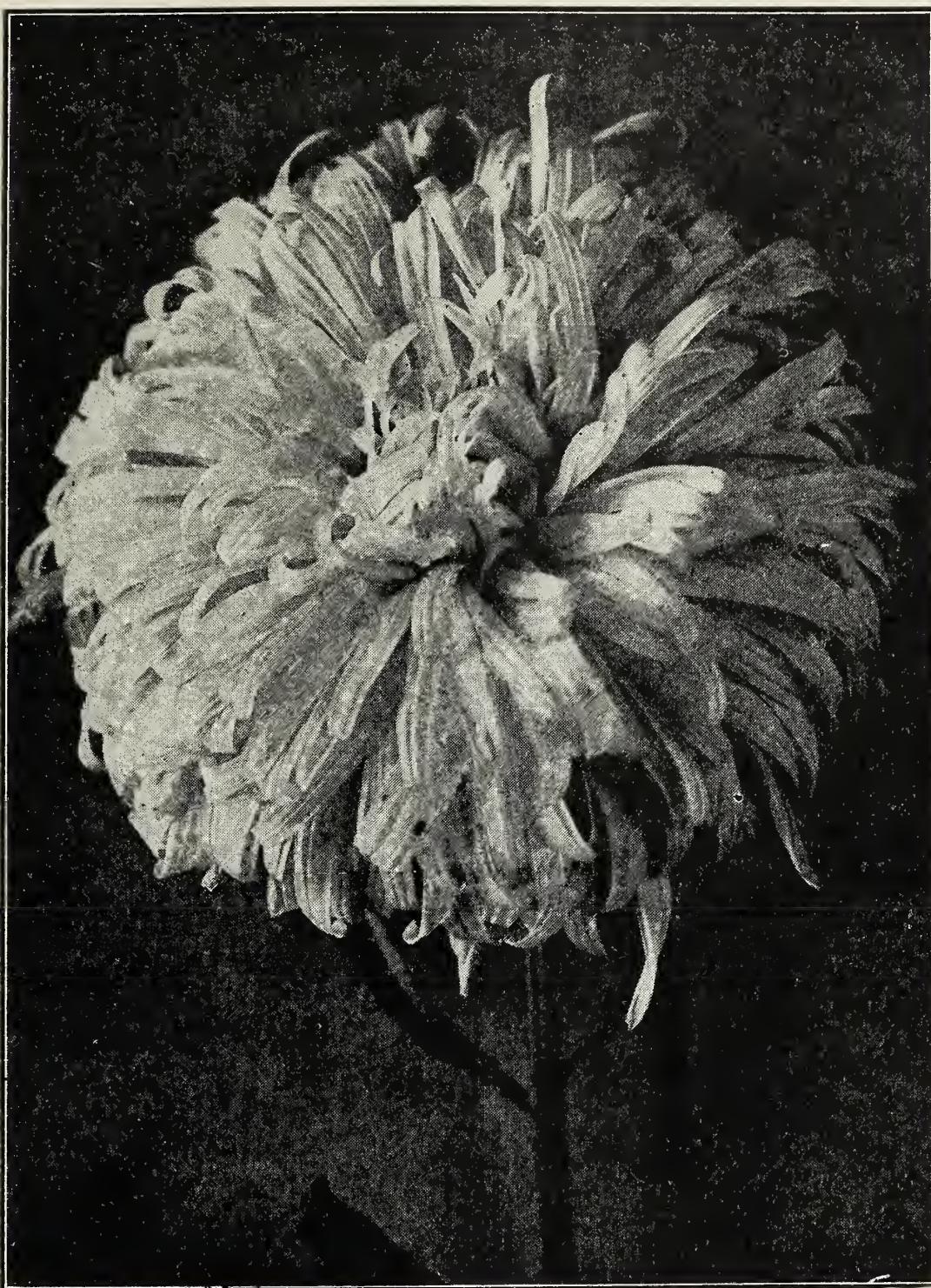
Hardy perennial; outdoors about six inches high. Single Mixed..... Giant Pkt. 10c.

Arabis Among the earliest blooming plants. Very useful for rock work, edgings, etc. Hardy procumbent perennial.

Alpina. This sort has small pure white, cruciform flowers. Leaves rather slender, somewhat clasping, small-toothed and pectinate. Giant Pkt. 10c.

Asparagus The ornamental varieties of asparagus are highly valued for their finely cut foliage. Both the climbing and trailing sorts are exceptionally attractive.

Sprengeri (*Emerald Feather*) A most graceful house plant; valuable for hanging baskets. Sprays three to four feet long; light green. Giant Pkt. 10c.



Aster, Giant Ostrich Feather

flowers; come into bloom in the open ground with us by the middle of July. They are the largest early Asters of which we know, flower $3\frac{1}{2}$ to 4 inches across, of double Comet type; splendid substance and long stems; plants healthy and sturdy, branching habit; 18 inches high; free bloomers.

Dark Blue Giant Pkt. 10c. White Giant Pkt. 10c.
Rose Giant Pkt. 10c. Light Blue Giant Pkt. 10c.

Finest Mixed. All colors. $\frac{1}{8}$ Oz. 30 Giant Pkt. 10c.

Ostrich Feather The finest type of the Giant Comet, or Ostrich Feather Asters. Much larger than the Giant Comet, the petals longer, more curled and twisted, and produced in greater abundance.

Borne on long stem.

Crimson Giant Pkt. 10c. Rose Giant Pkt. 10c.
Light Blue Giant Pkt. 10c. Dark Blue Giant Pkt. 10c.
Pink Giant Pkt. 10c. White Giant Pkt. 10c.

American Beauty Plants 2 to 3 feet high, branching habit, blooming early in September and lasting until killed by the frost. Flowers borne on large stems 18 to 24 inches, making them one of the most desirable sorts.

Red, White, Blue, Pink, Mixed Giant Pkt. 10c.
Asters Mammoth Flowering Branching Comets. Plants 2 to 3 feet high, bearing a large quantity of fine comet flowers, extra large, double. We consider this the leading late sort.

Red, White, Blue, Pink, Mixed Giant Pkt. 10c.

Semple's Branching A class of very strong growing asters usually not coming into bloom until the latter part of August, but producing on very long stems the full petalled, exceptionally large double blossoms of fine form. The plants are distinctly branching in habit of growth and are about two feet high. For many years this class with us has been almost entirely free from the aster blight.

White. Pure white, very attractive Giant Pkt. 10c.

Mary Semple. Flesh pink. A very light and charming shade Giant Pkt. 10c.

Light Pink. A beautiful light pink, slightly tinged with rose Giant Pkt. 10c.

Tyrian Rose. Flowers are very attractive deep purplish rose Giant Pkt. 10c.

Lavender. Bright lavender; very large flowers of fine form Giant Pkt. 10c.

Light Blue. Flowers light bright blue; very large and attractive Giant Pkt. 10c.

Crimson. Flowers bright deep crimson, tinged with carmine Giant Pkt. 10c.

Purple. Flowers are very deep purplish blue; rich and pleasing shades Giant Pkt. 10c.

Semple's Mixed. A superb mixture of all the shades and colors found in the Semple's class of late branching asters. Giant Pkt. 10c.

Aster, Finest Mixed A mixture of very fine strains and colors. The bed can be made more attractive by pulling up the early plants as soon as they are out of bloom. Giant Pkt. 10c.
Bachelor's Button—(See *Centaurea*) Baby's Breath—(See *Gypsophila*)

ASTER

The Aster, in its many double varieties, is unsurpassed for bedding and cutting, and is not only one of the most profitable annuals for the professional florist but also one of the most satisfactory for the home garden. The great diversity of size, color, form, and season of blooming makes it one of the most suitable plants for supplying cut flowers. The plants are usually of vigorous growth and so hardy that they endure a slight frost without serious injury. By planting the different strains and at different times, one may have in the latitude of Detroit a constant succession of bloom from the last of July till the middle of October without the aid of a greenhouse or even a hotbed.

Queen of the Market

Very desirable on account of extreme earliness as well as profuse blooming and wide range of colors. The plants are of somewhat compact but branching habit, about sixteen to eighteen inches high, bearing on long stems from ten to fifteen finely formed double flowers of medium size. Fine for cutting and used extensively for growing under glass. This class is known as Queen of the Earlies.

White. Distinctly early, double, fine form Giant Pkt. 10c.
Lavender. Light lavender-blue Giant Pkt. 10c.
Rose. A fine, very early red Giant Pkt. 10c.
Light Blue. A very pleasing shade Giant Pkt. 10c.
Deep Blue. An early and reliable deep blue aster Giant Pkt. 10c.
Mixed. Many pleasing shades and colors including white, pink, rose, deep red, crimson, lavender, light blue, and dark blue; early blooming and very floriferous Giant Pkt. 10c.

Express Extra Early Asters

Early flowering Asters of great merit, not only for garden purposes but of even more value for early cut

flowers Giant Pkt. 10c.
Giant Pkt. 10c.

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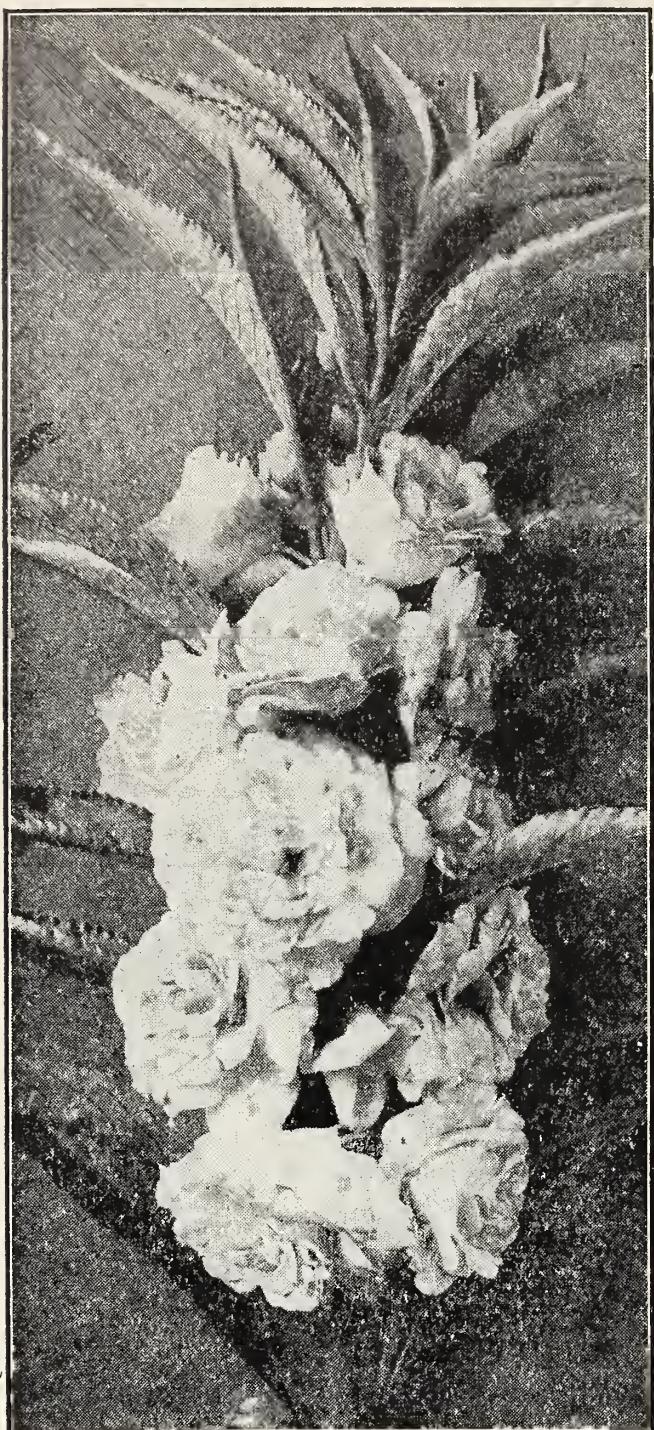
Early flowering Asters of great merit,

not only for garden purposes but

of even more value for early cut

flowers Giant Pkt. 10c.

No Flower Garden complete without a few Asters.



Balsam.

Butterfly Flower—(See *Schizanthus*).**Calceolaria**

A much admired genus distinguished by its abundance of large, showy, sac-shaped or slipper-like flowers which are creamy white and various shades of yellow, often splashed, spotted, or blotched with dark reddish-brown, two plants rarely having flowers marked exactly alike.

Leaves large, felty, close-growing. Under proper conditions can be grown indoors to perfection, making an exceedingly decorative plant. Herbaceous annuals or shrubby evergreen perennials.

Hybrida grandiflora. Large self-colored flowers..... Giant Pkt. 25c.

Hybrida tigrina. Flowers beautiful spotted..... Giant Pkt. 25c.

Finest Hybrids Mixed. Seeds saved from only the most perfect flowers; all desirable..... Giant Pkt. 25c.

California Poppy—(See *Eschscholtzia*). Chalendula—(See Marigold).

Calliopsis or Coreopsis

colored or with these colors and red contrasted.

Coreopsis tinctoria. A very hardy and easily grown annual, producing an abundance of brilliantly colored single ray flowers with dark center. The flowers, which are about one and one-half inches across, vary from clear yellow to deep rich brown, the two colors often being beautifully contrasted in the same blossom. Long, graceful stems and very desirable for decorative purposes. The tall, slender habit of growth makes neat staking desirable for best results. Height of plants, two to three feet. Fine mixed..... Giant Pkt. 10c.

Golden Ray. This dwarf variety forms compact plants covered with singularly attractive flowers of rich maroon edged with golden yellow. The petals are rather narrow and are often twisted, giving the flowers a star-like appearance. Hardy annual, six to eight inches high, well adapted for edgings..... Giant Pkt. 10c.

Lanceolata grandiflora. A very hardy perennial blooming the first year and producing on long stems a succession of rich bright yellow flowers two to three inches across. Very valuable for cutting. About two feet high..... Giant Pkt. 10c.

Campanula.—(See Canterbury Bell).

Canary Bird Flower

Twenty feet (*Tropaeolum canariense*) A beautiful climber with small, curiously shaped, canary colored blossoms and attractive palmate leaves. Tender annual; height, ten to Giant Pkt. 10c.

Balloon Vine (*Cardiospermum halicacabum*) A favorite with children, being remarkable for its inflated membranous capsules containing the seed. It is sometimes called "Love-in-a-Puff." A rapid and graceful climber. Flowers small, white. The round, black seed is marked with a white, heart-shaped spot. Tender annual; six feet high..... Giant Pkt. 10c.

Balsam (*Impatiens Balsamina*) Known also as Lady Slipper. The brilliantly colored, double rose-like flowers of this well-known border and bedding annual are thickly set along the branches of the erect, bushy plants. The dainty individual flowers, often two inches across, are borne on very short stems and when cut they show to best advantage floating in a dish of water. The colors range from white to dark purple, and are either self-colored or spotted and striped.

Hardy annual; one to two feet high.

Double Camelia, extra fine mixed. As double as a camelia, which this variety resembles; white blotched with various colors..... Giant Pkt. 10c.

Tall Double Mixed. About two feet high..... Giant Pkt. 10c.

Dwarf Double Mixed. About one foot high..... Giant Pkt. 10c.

Begonia Very desirable for pot culture or for bedding out in partially shaded locations. Suitable also for window boxes. Some varieties are grown for their foliage, but most sorts, when given proper care, produce abundantly large clusters of brilliantly beautiful wax-like flowers of fine form and substance. Tender perennial, blooming the first year if started early, one foot high.

Robusta Perfecta. Plants are of robust, compact habit; dark green foliage and brilliant, double, cinnabar-scarlet flowers..... Pkt. 15c.

Single Mixed. The seed we offer will produce the finest single flowers in various shades ranging from white to deep red..... Pkt. 10c.

Double Mixed. The largest and best double flowers, including shades of pink, red, scarlet, and light yellow..... Pkt. 15c.

Vernon (*Semperflorens atropurpurea*). Flowers brilliant, rich red, set off perfectly by the abundant, glossy green leaves, which are broadly margined with bronze and purple. Hardy and floriferous; the best of the *semperflorens* class..... Pkt. 15c.

Semperflorens alba. A very useful variety, well adapted for house or outdoor culture. Plants of compact dwarf habit, and under proper treatment almost continuous bloomers. Easily grown; flowers very attractive blush white..... Pkt. 15c.

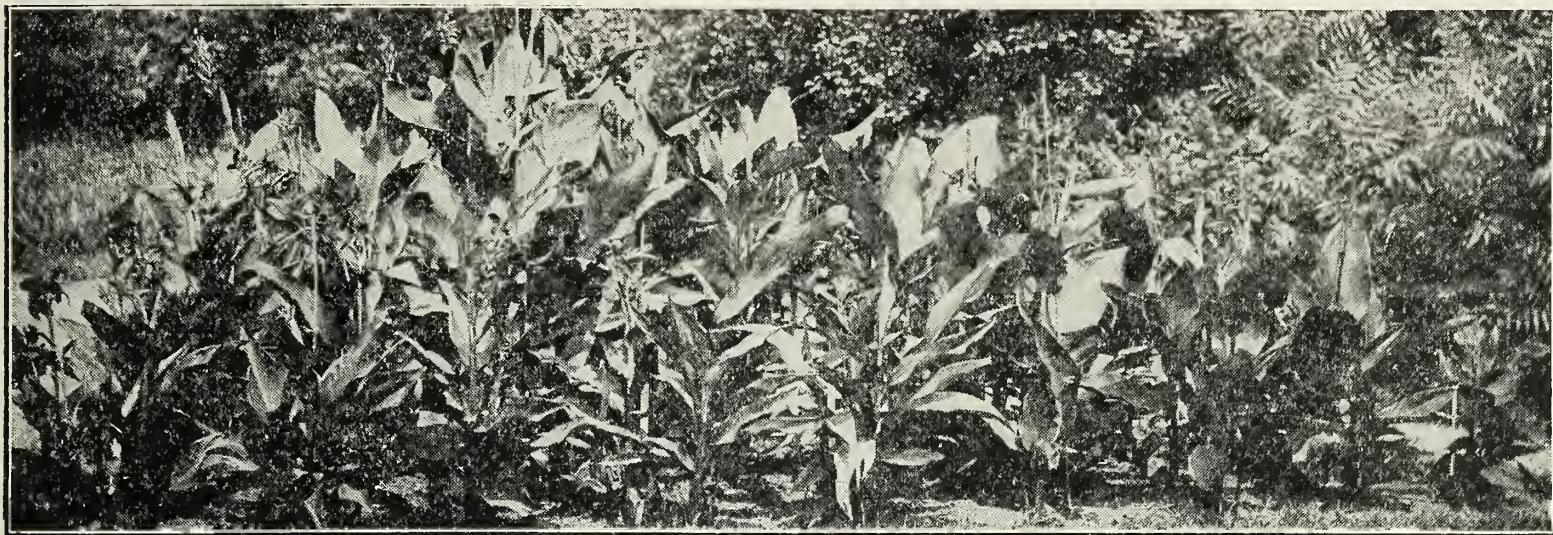
Semperflorens rosea. Like *Semperflorens alba*, except flowers are rose colored..... Giant Pkt. 15c.

Rex. Ornamental leaved varieties. Leaves very large, and are either a rich crimson tinted bronze, or emerald hued, having the upper surface zoned or spotted with silvery white. Finest mixed..... Giant Pkt. 25c.

For Begonia Bulbs, see Bulbs and Roots, page 58.
Bellis—(See Daisy).

Bignonia Radicans (*Tecoma radicans*, Trumpet Vine) One of the most

showy, certainly one of the best hardy, deciduous flowering climbers for covering verandas, arbors, trunks of trees, old walls, etc. Vines should be moderately pruned and well trained so as to afford a good circulation of air, thus insuring a more and better bloom. The flowers produced in clusters are trumpet shaped, two to three inches long, and of orange-red color. The foliage is very attractive and unusually free from insects. It not only is one of the best climbers, but planted on the lawn makes a pretty bush of dropping habit, if the tops are cut back. Hardy perennial often growing thirty feet..... Giant Pkt. 10c.



Cannas.

Candytuft

(*Iberis*) Showy, branching plants twelve to fifteen inches high and bearing in profusion terminal clusters of beautiful single cruciform flowers in a wide range of colors. Considered indispensable for cutting and very effective in beds, masses or rockeries. Hardy annual.

Lilac. Shading to light purple.....	Giant Pkt. 10c.
White.....	Giant Pkt. 10c.
Giant Hyacinth. Extra white trusses; much better than the common white variety.....	Giant Pkt. 10c.
Fragrant. Flowers white, fragrant; foliage finely cut.....	Giant Pkt. 10c.
Purple. A rich dark shade.....	Giant Pkt. 10c.
Rose Carmine. Compact habit.....	Giant Pkt. 10c.
Fine Mixed	Giant Pkt. 10c.

Canna Stately, very ornamental plants of semi-tropical appearance, very desirable for groups and in masses. Plants branching from the roots, with very large, broad leaves, producing clusters of large flowers of varied and brilliant colors from August until cut down by frost.

Tender annual in the open ground, or tender perennial in the greenhouse. Finest Large Flowering Mixed. Plants comparatively dwarf, about three feet high..... Giant Pkt. 10c.

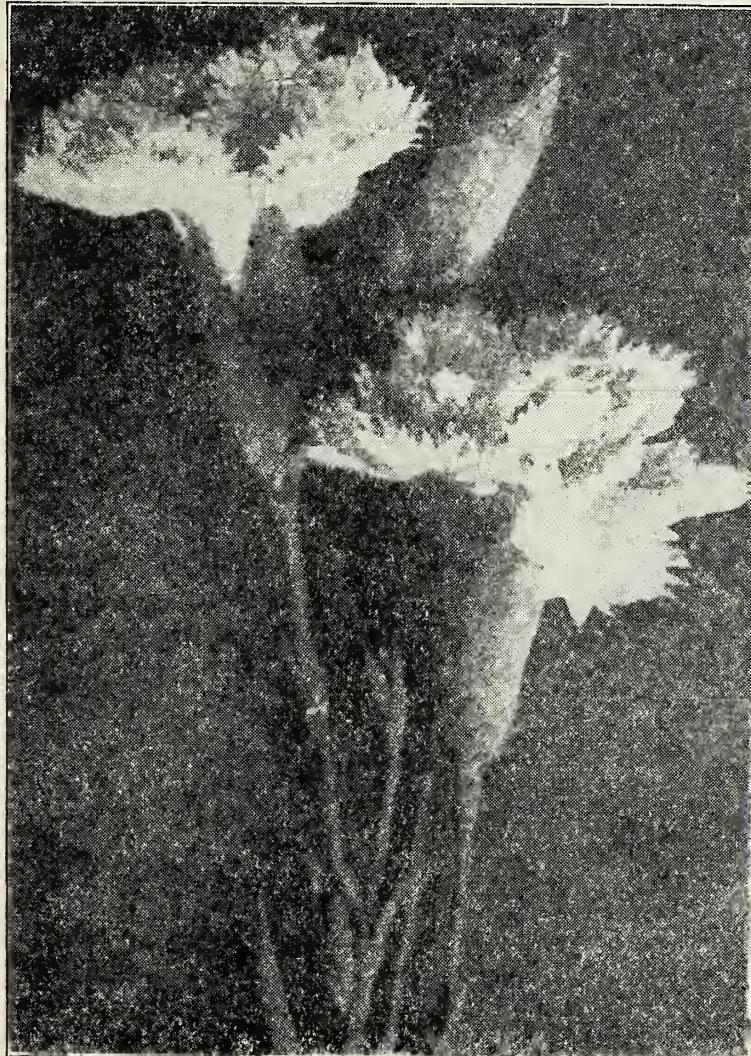
Canterbury Bell

(*Campanula medium*) Handsome, easily grown herbaceous plants of stately branching growth and profuse bloom for beds and backgrounds. They produce long racemes of strikingly effective bell-shaped or saucer-shaped flowers of rich color. Leaves sessile, lanceolate. Usually grown as a hardy biennial, but if seed is sown very early indoors it may be treated as a tender annual.

Double White.....	Giant Pkt. 10c.
Double Blue. Shades of blue and purple.....	Giant Pkt. 10c.
Double Mixed.....	Giant Pkt. 10c.
Single Mixed. Colors white, and various shades of violet, rose, lilac, and blue.....	Giant Pkt. 10c

Calycanthema Mixed. Large single flowers, white, lilac, rose, and purple. Known as "Cup and Saucer" plant, the calyx forming a cup round the base of the bell. Giant Pkt. 10c.

Carpet of Snow—(See *Alyssum*).



Carnation

Carnation

(*Dianthus Caryophyllus*) "Carnation," "Pink," "Clove Pink," "Florists' Pink,"

are names applied by different people to the same or to different plants of several species as well as to hybrids between them. They are easily grown from seed and very free blooming, the flowers being bright colored and with most delicious clovelike fragrance.

Some varieties are best adapted for pot culture and make fine house plants; others do best in beds in the open ground. The improved varieties we offer are suitable also for cutting. They produce very double, semi-circular blooms with thick wax-like petals and long pod-like calyx. The plants are branching but compact and erect, with slender, bluish green foliage. The bursting of the calyx may be prevented by using ashes or some form of potash. Where size and quality of flowers are desired rather than profusion of bloom, all except the terminal buds should be removed. This is the method employed by florists to obtain the larger longer-stemmed beauties. Half hardy perennial, usually treated as a biennial.

Large Flowering Carnations Best Suited For Pot Culture

The choicest varieties sold by florists are propagated from cuttings, but very beautiful double flowers just as good in form and more fragrant, although not as large, can be produced from the seed we offer.

Double Perpetual Flowered Mixed. An exceedingly beautiful variety producing very double flowers of various shades and colors. Plants closely branched and very symmetrical. Seed saved from choicest double flowers.

Giant Pkt. 15c.

Marguerite Finest Mixed. The plants of this wonderfully fine strain may be made to bloom in four months. Flowers large, double, deeply fringed, very fragrant and appear in very attractive shades of color. Plants semi-dwarf. One of the best carnations in cultivation. Especially desirable for bedding as an annual and for cutting..... Giant Pkt. 10c.

Castor Bean

(*Ricinus*) Tall majestic plants for lawns or drives; with broad, beautifully lobed, palm-like leaves of glossy green, brown, or bronzed metallic hue and long spikes of scarlet, or of green, prickly seed pods. Makes rapid, vigorous growth in rich soil. Seed beautiful striped or mottled. Tender annual; six to fifteen feet high.

Zanzibariensis. Wonderfully vigorous, from ten to fifteen feet high. Leaves have a brilliant luster, measuring about thirty inches across, ranging in color from bright green to deep bronze. Seed very large, oval. Mixed varieties Giant Pkt. 10c

Sanguineus. (*Tricolor*) Blood red stalks with red veination in leaves; height about six feet..... Giant Pkt. 10c

Castor Bean, Mixed. A desirable mixture of all the named varieties Giant Pkt. 10c

Centaurea

colored single and double heads of flowers on long graceful stems

Centaureas embrace some foliage plants but are more generally known for their hardy flowering annuals which include some of our most graceful and showy garden flowers that have long been favorites for cutting. The tall slender straight or slightly branching plants with narrow leaves thrive well in common garden soil. They produce bright

Annual Varieties Cultivated for Their Flowers.
Cyanus (Bachelor's Button, Corn Flower) A well-known, hardy border plant, also called "blue bottle" and "ragged sailor," which does best in carefully prepared gravelly soil. Hardy annual; plant one to two feet high. Mixed.. Giant Pkt. 10c.

Double Mixed (Bachelor's Button) Produces larger, more globular flower-heads than the common variety. Giant Pkt. 10c

Odorata (Sweet Sultan) An old-fashioned hardy annual about eighteen inches high, with long-stemmed, sweet scented, light purple flowers..... Giant Pkt. 10c

Marguerite. A most desirable, sweet scented *Centaurea*, producing on long stems finely laciniated white flowers, about as large as a carnation, and which remain fresh and beautiful for a long time after cutting. Hardy annual; about eighteen inches high..... Pkt. 10c.

Imperialis Mixed. An excellent sweet scented variety, also called Sweet Sultan. The flowers are finely laciniated and are about the size of a carnation. They have long stems and keep well after cutting. Colors range through white, rose, lilac, purple, and yellow. Hardy annual; about eighteen inches high..... Giant Pkt. 10c

Perennial Varieties Cultivated for Foliage.

Gymnocrapa. This is also called Dusty Miller. Valuable because of its finely cut silver gray foliage and graceful drooping habit of growth. Half hardy perennial; one and one-half to two feet high..... Giant Pkt. 10c

Chrysanthemum These outdoor "summer Chrysanthemums" are showy and effective for bedding or borders in the garden and desirable for cut flowers. Plants become more bushy and shapely if pinched back in early growth and the practice of disbudding will result in much larger flowers. These annuals are not the winter flowering sorts sold by the florists and which are propagated only by division of roots.

Early Blooming Garden Sorts.

Height one and one half to two feet.

Mixed. The choicest *Carinatum* and *Coronarium* varieties, both single and double..... Giant Pkt. 10c.

Cheiranthus Cheiri—(See Wallflower)

Cheiranthus Maritimus—(See Virginian Stock)

Cineraria

Cinerarias are easily grown from seed in the greenhouse. The large heads of brilliant daisy-like flowers of many colors, usually sharply margined and with dark eye, are very desirable in pots. The plants are often as broad as high and the velvety leaves are shaded on the under side. Perennial, usually one to two feet high.

Maritima candidissima. (*Dusty Miller*) Cultivated for its handsome, silvery white foliage; very ornamental as a decorative pot plant, or for bedding. Half hardy perennial, one to two feet high..... Giant Pkt. 10c.

Hybrida, very dwarf, mixed. Large flowered, eight inches high. Blooms profusely; many colors.... Giant Pkt. 25c.

Clarkia Beautiful, hardy annuals with rose colored, white and purple flowers, in delicate but very brilliant shades. The plants are about one and one-half to two feet high and are profuse bloomers.

Double Mixed..... Giant Pkt. 10c.

Clematis Well-known beautiful climbers, much admired for their gracefulness and attractive flowers. They are splendid for covering arbors, verandas, etc., as they cling readily. Mixed. Extra choice, large flowering varieties with beautiful clusters of purple and white flowers..... Giant Pkt. 10c.

Cobaea Scandens A fine rapid growing climber with handsome dark green foliage and bearing on graceful stems large, bell-shaped flowers, green at first but rapidly changing to a beautiful deep violet-blue. A wire-netting trellis or support for the green profusion of tendrils to fasten upon is preferable to cords or smooth wire. A well established plant will run about thirty feet in a season, covering a large veranda.

Tender perennial..... Giant Pkt. 5c.

Cockscomb—(See Celosia)

Coix Lachryma—(See Job's Tears)

Celosia

An odd and picturesque class of plants having colored foliage and in which the innumerable small flower and seed vessels together with their supports form a very brilliant colored mass, sometimes gracefully arranged like plumes and sometimes more dense, being corrugated and frilled at the edge like a cock's comb. They form the gayest possible decoration in beds and borders, retaining their brilliant coloring, often from midsummer until frost. The red *Cristata* sorts are sometimes cut before fully ripe and dried in the house for winter bouquets.

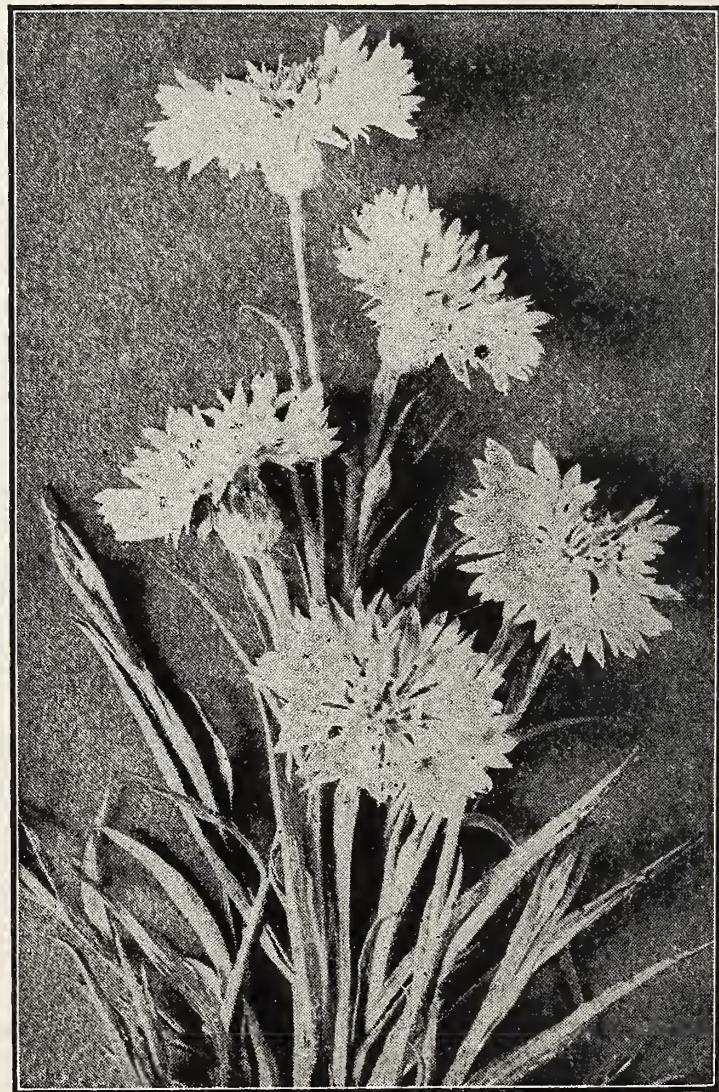
Half hardy annuals.

Pyramidalis plumosa mixed. Plants pyramidal, branching, two or more feet high, covered with long, brilliantly colored and gracefully formed plumes in red, yellow, or violet. An excellent mixture of *plumosa* or feathered celosias..... Giant Pkt. 10c.

Variegated. A *cristata* strain between the *plumosa* and the dwarf cockscomb types. The plumes are broadened at the top, variegated and striped in red and yellow. Height one and one-half to two feet..... Giant Pkt. 10c.

Giant Empress. This beautiful dwarf plant has bronze leaves and forms very large crimson combs. Height about one foot..... Giant Pkt. 10c.

..... foliage plants but are more generally known for their hardy flowering annuals which include some of our most graceful and showy garden flowers that have long been favorites for cutting. The tall slender straight or slightly branching plants with narrow leaves thrive well in common garden soil. They produce bright



Centaurea Cyanus (Bachelor's Button)

In selecting your list of Flowers, include some Chinese Woolflowers.



Early Flowering Cosmos

Cosmos At last we have succeeded in obtaining a double flowering cosmos in the extra early type. They grow to the height of about three feet, forming a perfect bush masked with bloom, bearing beautiful double flowers of good size on long stems. They bloom in seventy days from the day seed is sown and come about seventy five percent double. Blooming until cut down by frost. Colors, Red, White, Pink and Mixed..... Giant Pkt. 25c

Early Flowering Cosmos

These early flowering strains are about four feet high and bloom profusely four to six weeks earlier than the giant sorts. The flowers are of good size; well adapted to northern latitudes.

Early Flowering Red, Pink and White.. Giant Pkt. 10c
Early Flowering Mixed. Includes white, bright red, and rose colored flowers..... Giant Pkt. 10c

Giant Flowering Sorts

Hybrida, Giant White..... Giant Pkt. 10c
Hybrida, Giant Pink and Red..... Giant Pkt. 10c
Hybrida, Giant Mixed. Flowers white and in shades of pink, rose, and maroon, and Gourds the description herewith on the new double varieties. Giant Pkt. 10c.
Cucurbita—(See Gourd.)

Cyclamen Well-known and universally admired tuberous rooted pot plants producing exceedingly handsome red and white flowers for indoor winter or spring blooming in green houses or window garden. The gracefully richly colored single flowers are of distinctive shape and are borne on stems of good length for a long blooming season well above the beautiful foliage. The glossy ovate or nearly round leaves are usually marbled or variegated with white. Tender perennial one foot high. *Persicum giganteum*, mixed. Beautiful foliage and profuse bloom; each flower is two to two and one-half inches long. Very choice..... Giant Pkt. 25c.

Cypress Vine (*Impomoea quamoclit*) A most beautiful rapid growing climber with delicate dark green, feathery foliage and many bright star-shaped, scarlet or white blossoms which contrast most effectively with the graceful foliage. Planted by the side of veranda, tree or stakes, and trained properly, there is no handsomer climber. Tender annual; about fifteen feet high. Red, White and Mixed..... Giant Pkt. 10c.

Dahlia A favorite for autumn flowering, blooming the first season from seed if started early. The flowers are so symmetrical and perfect and the range of colors so wide and varied that they will always be popular where display is wanted. Tender herbaceous perennial, three to four feet high. The finest flowers imaginable the first year from seed.

Coleus

Magnificent ornamental foliage plants for house or garden culture. The leaves are of many shapes, and the shades and colors are of remarkable beauty.

Tender perennial; plants about one to two feet high. Finest Hybrids Mixed. Extra choice... Giant Pkt. 25c.

Columbine (*Aquilegia*) Very desirable, easily grown, old-fashioned perennials for borders, forming large, permanent clumps. Blooms profusely early in the season and remains in bloom for a considerable period. The peculiar pendant flowers are exquisitely formed, in various colors, often with long spurs. The leaves are usually smooth, ternately compound, with roundish, obtusely lobed leaflets.

Hardy herbaceous perennials; two or three feet high.

Californica hybrida. Hardy, free blooming, with single orange, red and yellow flowers.... Giant Pkt. 10c. Double Mixed. Best and finest colors, including white, shades of blue and brownish purple.. Giant Pkt. 10c. **Convolvulus Major**—(See Morning Glory.)

Convolvulus Minor (*Dwarf Morning Glory*)

Dwarf plants of trailing, branching habit, each covering a space about two feet in diameter. At mid-day they are completely covered with a mass of pure white and variously colored funnel-shaped blossoms which remain open in clear weather until evening.

Half hardy annual; about one foot high. Mixed..... Giant Pkt. 5c.

Cosmos

Very effective for autumn flowering in broad masses or back-grounds. A hardy and rapid growing annual, forming bush-like plants with feathery green foliage four to six feet high, covered with large flowers somewhat resembling the single dahlia. They are gracefully poised on long stems and very useful for decorative purposes.

Finest Double Mixed. Seeds saved from choicest double flowers, including shades of red, pink, dark maroon, yellow, white, etc..... Giant Pkt. 10c

Finest Single Mixed. Will produce brilliant flowers running through a wide range of striking colors. Giant Pkt. 10c.

For Dahlia Roots see Bulbs and Roots, page 58.

Daisy (*Bellis perennis*) Charming little plants for edgings and borders, also used for low beds and rock work. The flowers of the improved varieties we offer are borne above the low clusters of leaves on stiff flower stalks, making them suitable for bouquets. With careful cultivation nearly seventy-five percent are double. Leaves spatulate or obovate. Half hardy perennial, about six inches high.

Double Rose. (*Longfellow*) Finest strain. Giant Pkt. 10c
Double White. Very double, clear white. Giant Pkt. 10c
Double Mixed. Shades of rose and white. Giant Pkt. 10c

Datura Large branching plants producing very large handsome, double, or single, trumpet-shaped blossoms of exquisite fragrance. Excellent for late summer and autumn flowering. Tender annual; three feet high.

Wrighti. Pure white at the center shaded into lilac and blue magnificent large single flowers. In warm latitudes can be continued as a perennial. Giant Pkt. 10c.

Chlorantha, fl. pl. (*Humilis flava*) Large, usually double yellow, richly scented..... Giant Pkt. 10c

Mixed. The above varieties..... Giant Pkt. 10c

Delphinium—(See Larkspur)

Dianthus—(See Pinks)

Dianthus Barbatus—(See Sweet William)

Dianthus Caryophyllus—(See Carnation)

Digitalis—(See Foxglove)

Eschscholtzia, Bush (*Hunnemannia*)**Dimorphotheca Aurantiaca**

This showy annual with bright orange-yellow flowers, is sometimes called African "Golden-Orange" Daisy. Plants somewhat spreading, with finely cut foliage, producing abundantly on stems of good length, glossy, single daisy-like blossoms about two and one-half inches across. The brilliant orange coloring of the petals contrasts strikingly with the black center which is surrounded by a dark colored disc. Well adapted for summer flowering in beds or borders.

Hardy annual, about one foot high..... Giant Pkt. 10c.

Emerald Feather—(See *Asparagus Sprengerii*)

Dolichos—(See *Hyacinth Bean*)

Eschscholtzia

(*California Poppy*) The State flower of California. It is fully as valuable as the common Poppy for garden ornamentation since it blooms through a much longer season. A bed in full bloom of these large saucer-shaped flowers in various shades of yellow with orange center gives a brilliant color effect. The foliage is finely cut and has a bluish tinge or bloom, delicate and very attractive.

Hardy annual, low spreading; about one to one and one-half feet high.

Purple Glow. Undoubtedly the greatest advance that has been made in the Eschscholtzias, is a bright reddish purple and the darkest shade that has been obtained so far..... Giant Pkt. 10c.

Geisha. The fluted petals inside brilliant gold, outside petals, intense orange crimson. Undoubtedly one of the best Escholtzias..... Giant Pkt. 10c.

Scarlet Beauty. This is one of the brightest colors in the Eschscholtzia it being a deep scarlet, plants erect and when in bloom has the appearance of a vivid scarlet tulip..... Giant Pkt. 10c.

Evening Glory—(See *Ipomoea Bona Nox*)

Ferns

Perennial flowerless plants, too well known to need description. The seed spores are very small and of slow germination but the exceeding grace and beauty of the plants usually well repay all the care necessary to start them properly in the green house or some place indoors where they will keep moist. The young ferns may be placed in a window-box without much sun, or can be set outdoors in summer in some moist and shady place.

Fine Mixed..... Giant Pkt. 20c.

Feverfew—(See *Matricaria* and *Purethrum*)

Forget-Me-Not

(*Myosotis*) This is a favorite old-fashioned flower, bearing in profusion, especially in fall and spring, clusters of dainty blue five-petaled blossoms. It thrives well in the shade or open border but flourishes best in a moist, shady situation.

Hardy perennial but usually does better if given some protection during winter.

Alpestris. Plants of compact, bushy habit with finely cut foliage, growing six to eight inches high. Flowers blue with a very small yellowish eye..... Giant Pkt. 10c.

Four O'Clock

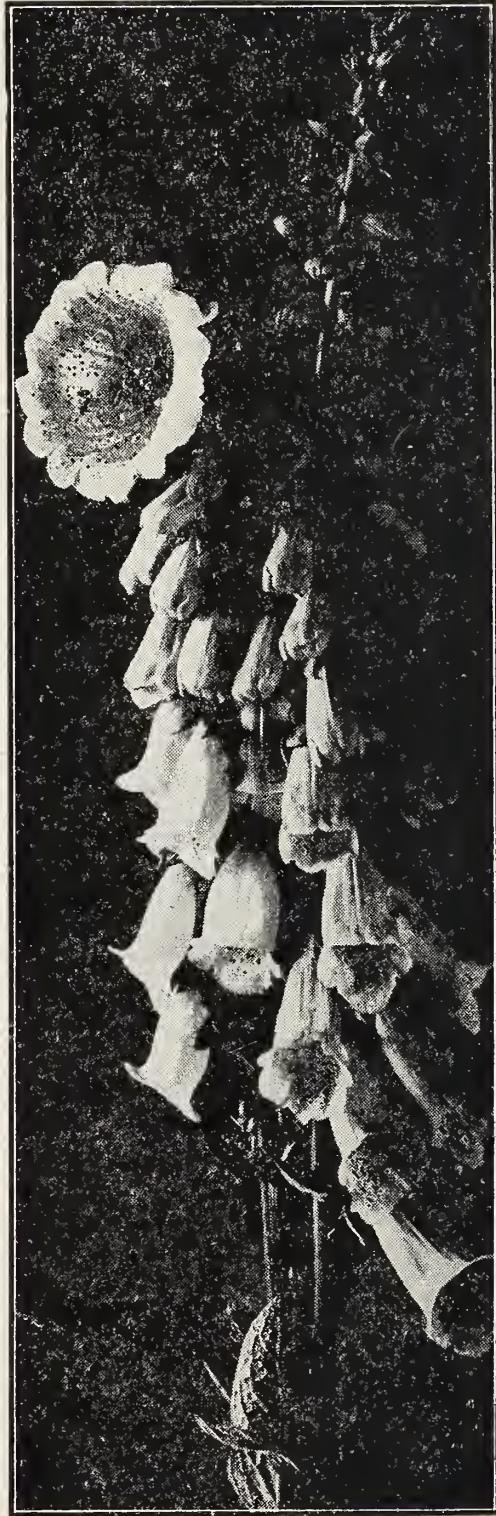
(*Marvel of Peru*, *Mirabilis Jalapa*)

Large and beautiful, old-fashioned plants of erect bushy habit which produce in profusion a succession of brilliantly colored tube-shaped flowers, that open about four o'clock in the afternoon, remaining open all night and usually are closed before noon the next day. The flowers are red, white, yellow, or are striped and blotched in shades of these colors. Very desirable for borders, along a wire fence, or as the background of a flower garden, blooming during the late summer and autumn.

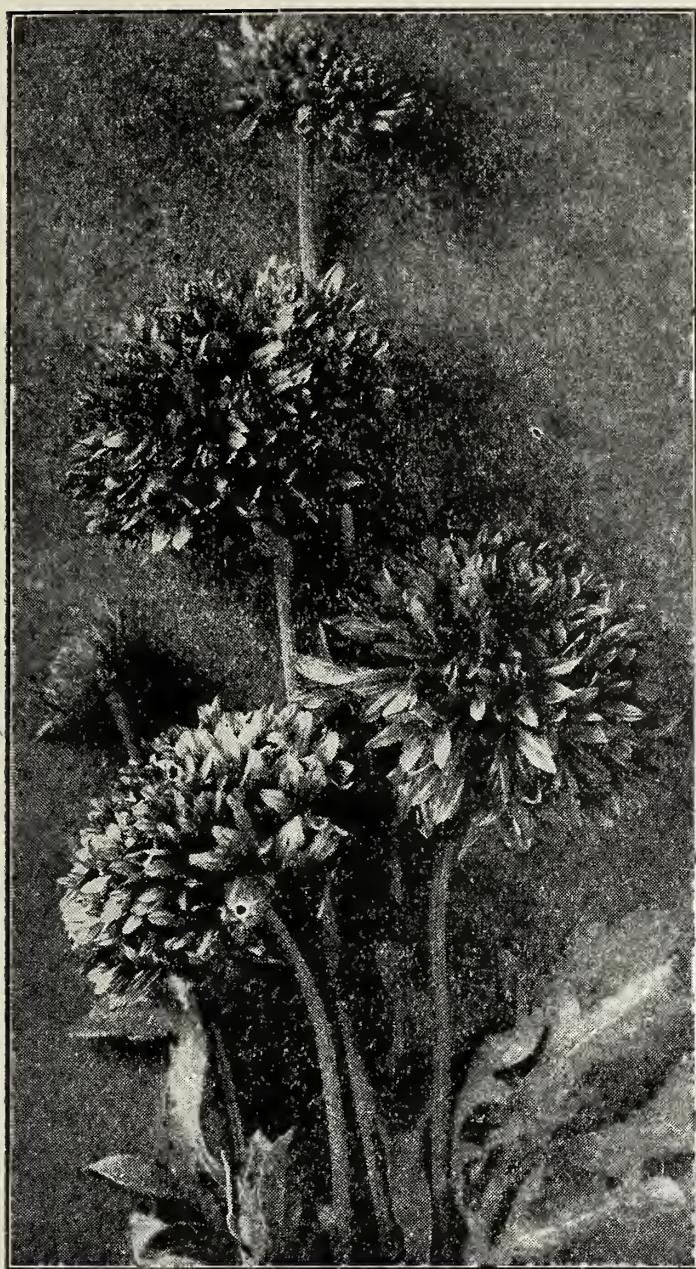
Hardy annual, about two feet high.

Mixed. An exceptionally attractive mixture..... Giant Pkt. 10c.

New Dwarf. Extra fine mixed..... Giant Pkt. 10c.



Foxglove



Gaillardia, Picta Lorenziana.

Foxglove

(*Digitalis*) Stately old-fashioned border plants, affording dense spikes of large brilliantly colored flowers which are terminal and half as long as the height of the plant. The flowers are very distinct and showy, being thimble-like or long bell-shaped, and the colors include white, lavender and rose, many being spotted or blotched. It is often used as a background, and does especially well in cool, shady locations in front of shrubbery. The leaves are wrinkled and somewhat downy.

Hardy biennial or perennial, usually blooming the season; three to five feet high.

Fine Mixed. Many shades and markings.....Giant Pkt. 10c.

Mammoth Foxglove (*Digitalis monstrosa*) Remarkably odd; each flower spike surmounted with a very large bell-shaped flower. Mixed colors.....Giant Pkt. 15c.

French Honeysuckle (*Hedysarum*) Very hardy branching plants, producing racemes of beautiful small fragrant pea-shaped flowers; well adapted for borders or rock work.

Hardy perennial; often growing four feet.

Coronarium, Scarlet.....Giant Pkt. 10c.

Coronarium, Album, white.....Giant Pkt. 10c.

Fuchsia Known also as "Lady's Eardrops" from the bright colored pendulous double flowers with four parted, funnel shaped calyx. Plants with very beautiful blossoms may be grown from seed with proper care. Results are usually most satisfactory when grown indoors in pots in firm rich soil, but if seed is started early under glass it often succeeds well in an outdoor window-box, or a shady situation in the garden. Tender perennial; one to two and one-half feet high.

Double Finest Mixed. Seed from finest named sorts.....Giant Pkt. 25c.

Gaillardia

Showy bedding and border plants, remarkable for the profusion, size, and brilliancy of their flowers, blooming the first year and among the gayest ornaments of the garden in summer and autumn. Combinations of yellow and red predominate in the highly colored single and double flower-heads, two inches or more across, which are borne singly well above the foliage on long, slender stems, suitable for cutting. Leaves alternate, simple, and more or less toothed.

Plants one to one and one-half feet high.

Grandiflora. Flowers scarlet and orange, single, often three inches across, with flat petals. Excellent for cutting. Hardy perennial, blooming the first year.....Giant Pkt. 10c.

Rosea Gigantea. 3½ ft. Green foliage rich soft, rose pink, flowers of gigantic size. A prolific bloomer, the large broad petals and massive heads of bloom, invariable create a sensation.

Venus. 4 ft. Green foliage. A gay rosy pink with a well defined border of creamy yellow.

Golden Gate. 4 ft. Green foliage. Flowers pure gold, becoming richly rayed with orange crimson and apricot, centering to the throat.

Yellow King Humbert. 4 ft. Green foliage. Like King Humbert in habit of growth and flowering, but golden yellow, blotched red.

Geranium

(*Pelargonium*) When properly grown, the constant succession of bloom until frost comes, the brilliant colors of the flowers and the exquisite zone or horseshoe markings of the leaves of some of the varieties, render the Geranium very desirable for pot culture as well as for bedding out of doors and for growing in window boxes. Half hardy perennial; about two feet high.

Scarlet Mixed (*Zonale*) The seed we offer will produce a large percentage of double flowers in many beautiful shades of scarlet and red.....Giant Pkt. 25c.

Gilliflower—(See Stock)

Gladiolus

These magnificent plants for bedding and cutting with their long spikes of tubular lily-form flowers can be raised from seed in nearly every conceivable color and shade, some being most beautifully striped and blotched. Tender perennial; about two and one-half feet high.

Finest Mixed. Finest named sorts mixed.....Giant Pkt. 15c

For Gladiolus Bulbs, see Bulbs and Roots, page 59.

Globe Amaranth

(*Gomphrena globosa*) A desirable everlasting, valued for its handsome, small, globular flower heads, which, if cut when well matured will retain their beauty through the winter. Tender annual; twelve to eighteen inches high.

MixedGiant Pkt. 10c

Gloxinia

Greenhouse perennial plants producing soft, velvety green leaves and rich, beautifully colored trumpet-shaped flowers. Gloxinias thrive best in an equal mixture of leaf mold, loam and sand. If started in February will usually bloom the latter part of summer.

Hybrid mixed. A strain of the richest color and variety of markings. Plants ten to twelve inches high. ..Giant Pkt. 25c.

Gourd

(*Cucurbita*) A very extensive genus of trailing annuals with curiously shaped yellow fruit, commonly known as Ornamental Gourds. The vines are of easy culture and make a rapid growth, so are much used for covering old fences, trellises, stumps, etc. The foliage is ornamental, and the markings of some of the fruit extraordinary.

Tender annual ten to twenty feet high.

Apple Shaped. Fruits are nearly round, yellow, sometimes stripedGiant Pkt. 10c

Dish Cloth. Long, green, corrugated fruit, the inside fibrous mass of which, when shell and seeds are removed, makes an excellent sponge.....Giant Pkt. 10c

Hercules' Club. Distinctly club-shaped, the longest of all the varietiesGiant Pkt. 10c.

Japanese Nest Egg. Used as nest eggs; fruits are white, do not crack; not injured by heat or cold...Giant Pkt. 10c

Orange. Also known as Mock Orange. Nearly round, orange coloredGiant Pkt. 10c

GOURD—continued

Pear Shaped, Ringed. Green and yellow, beautiful bicolored fruit, upper half yellow, lower half green Giant Pkt. 10c.

Pear Shaped, Striped. Fruits green, with cream colored striping, sometimes changing to yellow. Giant Pkt. 10c.

Siphon or Dipper. Useful for dippers; fruits long, bottle-shaped with straight or slightly crooked neck Giant Pkt. 10c.

Mixed Giant Pkt. 10c.

Gypsophila Delicate, free-flowering plants, covered with star-shaped flowers, valuable for mist-like effects and as trimming in bouquets, also for hanging baskets or edgings. Sometimes called Baby's Breath. Will thrive in almost any well prepared ground, but does best on a limestone soil. Make handsome specimens dried.

Elegans Large Flowering Pure White. An improved large-flowering strain, superior to the common Elegans not only in size of flowers, but also in color. A very charming sort for combining in bouquets with Sweet Peas or other cut flowers Giant Pkt. 10c.

Panuculata Alba (Perennial) Giant Pkt. 10c.

Hedysarum—(See French Honeysuckle)

Helianthus—(See Sunflower).

Helichrysum (*Everlasting*) Sometimes called Straw Flower. Large, full, double daisy-like flower heads with prominent centers and stiff overlapping scales, produced in various shades of bright yellow and scarlet on stems of good length. Desirable as dried specimens and for use in making winter bouquets. For this purpose the flowers should be gathered when on the point of expanding.

Hardy annual; two to two and one-half feet high.

Fire Ball Giant Pkt. 10c.
Gold Ball Giant Pkt. 10c.
Silver Ball Giant Pkt. 10c.
Violet Giant Pkt. 10c.
Monstrosum, fl. pl. mixed. Largest double flowers Giant Pkt. 10c.

Heliotrope Well-known and much-admired border and bedding plants, highly valued for the blue color and fragrance of their branching clusters of small salver-shaped flowers as well as the duration of their bloom. **Gypsophila, Elegans Large Flowering Pure White.** Half hardy perennial; one and one-half to two feet high. **Dark Varieties Mixed.** Very choice Giant Pkt. 10c. **Hesperis Matronalis**—(See Rocket).

Hibiscus Africanus A vigorous branching plant, of easy culture, with pretty foliage and large, light yellow or cream-colored blossoms, dark purple in the center. The flowers are exceedingly showy, saucer-shaped, often two or three inches across; not of very long duration, but continue to bloom from early summer till October. Hardy annuals; about two feet high Giant Pkt. 10c.

Hollyhock (*Althaea rosea*) For a background to a flower garden nothing is better than the improved strains we offer of this tall old-fashioned garden perennial. The large, richly colored blossoms, about three inches across, ranging from deep yellow and red to pure white, are set as rosettes around the strong growing flower stalks. All double varieties are hardy perennials; five feet high.

Early Flowering. Blooms readily as an annual the first year from seed sown in spring. A wide range of colors in large single or semi-double flowers Giant Pkt. 15c.

Chater's Finest Mixed. Double perfection Giant Pkt. 15c.

Double Blood Red Giant Pkt. 10c.

Double Lemon Yellow Giant Pkt. 10c.

Double Deep Rose Giant Pkt. 10c.

Double Pink Giant Pkt. 10c.

Double Salmon. Rich salmon color, suffused with pink. Giant Pkt. 10c.



Gypsophila, Elegans Large Flowering Pure White.

Double Pure White. Our special improved strain Giant Pkt. 10c.
Double Mixed Giant Pkt. 10c.

Humulus Japonicus (*Japanese Hop*) Hardy annual climber fifteen to twenty feet high with rough lobed leaves of variegated colors, very rough leaf stems and small flowers. Desirable for covering unsightly objects or shading verandas Giant Pkt. 10c.

Hyacinth Bean (*Dolichos lablab*) A fine climber with clusters of purple or white flowers followed by ornamental seed pods. Tender annual; from ten to fifteen feet high.
Alba. White Giant Pkt. 10c.
Purpurea. Purple Giant Pkt. 10c.
Mixed. The above mixed Giant Pkt. 10c.

Iberis—(See Candytuft)

Ice Plant (*Mesembryanthemum crystallinum*) A curious plant for hanging baskets, rock-work, vases and edgings; leaves and stems succulent, appearing as though covered with ice crystals. Tender annual trailer; six inches high Giant Pkt. 10c.

Immortelles—(See *Acroclinium*, *Globe Amaranth*, *Helichrysum*, *Rhodanthe*)

Impatiens—(See Balsam)

Ipomoea Beautiful annual outdoor climber of luxuriant growth for covering verandas and arbors, or for screening unsightly objects. Tender annual; 10 to 15 feet high.
Setosa (*Brazilian Morning Glory*) Very vigorous rapid growing vine with large, three lobed leaves and stems covered with brown hair. Flowers open in morning, salver formed, delicate blue or reddish purple with pink star in center and produced in clusters. Seed black, a little larger than Limbata Giant Pkt. 10c.

Noctiflora. White seeded Noctiflora hire Giant Pkt. 10c.

Early Flowering Sky Blue (*Ipomoea grandiflora rubro caerulea*) A most desirable, early, free flowering sort, with glossy dark foliage and very large flowers that open a tinge of carmine-rose and when mature are bright light blue Giant Pkt. 10c.

Ipomoea Grandiflora—(See *Moon Flower*)

Ipomoea Quamoclit—(See *Cypress Vine*)

Ipomoea Purpurea—(See *Morning Glory*)

Japanese Hop—(See *Humulus Japonicus*)

Joseph's Coat—(See *Amaranthus tricolor*)

Job's Tears (*Coix lachryma*) Curious ornamental grass with broad, corn-like leaves and lustrous slate-colored seeds used for beads. Valuable for winter bouquets with everlasting flowers. Hardy annual; three feet high.....Oz. 15c; Giant Pkt. 10c.

Kochia Trichophylla (*Mexican Fire Bush, or Summer Cypress*) A quick growing foliage or hedge plant, very symmetrical and attractive in summer and fall. The foliage is as fine as moss and of clean bright green color. Early in the fall innumerable little flowers appear and the bush takes on a deep red tinge. Hardy annual; about two and one-half feet high.....Giant Pkt. 10c.

Lantana The plants form small shrubs, producing in late summer and autumn an abundance of heliotrope-like clusters of single, fragrant flowers that change color. Succeeded by green berries that turn to a deep blue. Tender perennial; about two feet high. Finest French Hybrids Mixed.....Giant Pkt. 10c.

Larkspur (*Delphinium*) The Larkspur, with its long clustered spikes of beautiful irregular flowers, often with long spurs, is especially valuable for its shades of blue. The annual forms are very desirable for bedding and the perennials are strikingly effective as a background, for borders, and for planting among shrubbery. Seed of annual varieties may be sown outdoors early in spring. The perennial sorts are sown in fall or early in spring.

Annual Varieties

Double Dwarf Rocket Mixed. Beautiful spikes of double flowers in many shades. Hardy annual; one foot high.....Giant Pkt. 10c.

Tall Stock Flowered Mixed (*Consolida fl. pl.*) Flowers double, borne on spikes about fifteen inches long. Colors rose, white, and shades of blue. Hardy annual; two feet high.....Giant Pkt. 10c.

Tall Exquisite. Tall growing strong stems, stock flowered, the best of the annuals.....Giant Pkt. 10c.

Perennial Varieties

Elatum (Bee Larkspur) Flowers blue with hairy petals in the center giving them a fancied resemblance to a bee. Hardy perennial; three to five feet high.....Giant Pkt. 10c.

Formosum. Flowers large, deep blue shaded indigo, small white center. Hardy perennial; three to five feet high; long blooming season. Sometimes called Mexican Larkspur.....Giant Pkt. 10c.

Belledona. Light blue.....Giant Pkt. 10c.

Gold Medal Hybrids......Giant Pkt. 10c.

Lathyrus Latifolius—(See *Peas, Everlasting*)

Lathyrus Odoratus—(See *Sweet Peas*)

Linum Grandiflorum Rubrum (Scarlet Flax)

An attractive free-flowering bedding plant with slender foliage and bearing on delicate stems clusters of glossy bright red single flowers, saucer-shaped, with black center. Hardy annual; about one and one-half feet high.....Giant Pkt. 10c.



Larkspur, Formosum.

Lobelia

Are charming plants, well adapted for bedding, pots or rockeries. They make a neat edging for beds of white flowers and are very effective in masses, being completely covered with flowers for a long time. The flowers are usually blue with lighter center and are borne in neat clusters, each irregularly lobed flower being about five-eighths inch across.

Half hardy annual; usually about six inches high.

Emperor William. A very fine, erect and compact variety with clear intensely blue flowers.....Giant Pkt. 10c.

Crystal Palace. A compact, exceptionally graceful sort, very desirable for edgings, having bright deep blue flowers; very dark green foliage.....Giant Pkt. 10c.

Gracilis. The flowers are bright blue with small white centers, fine for baskets and vases, trailing gracefully and blooming profusely. Plants slender, six inches high. Giant Pkt. 10c.

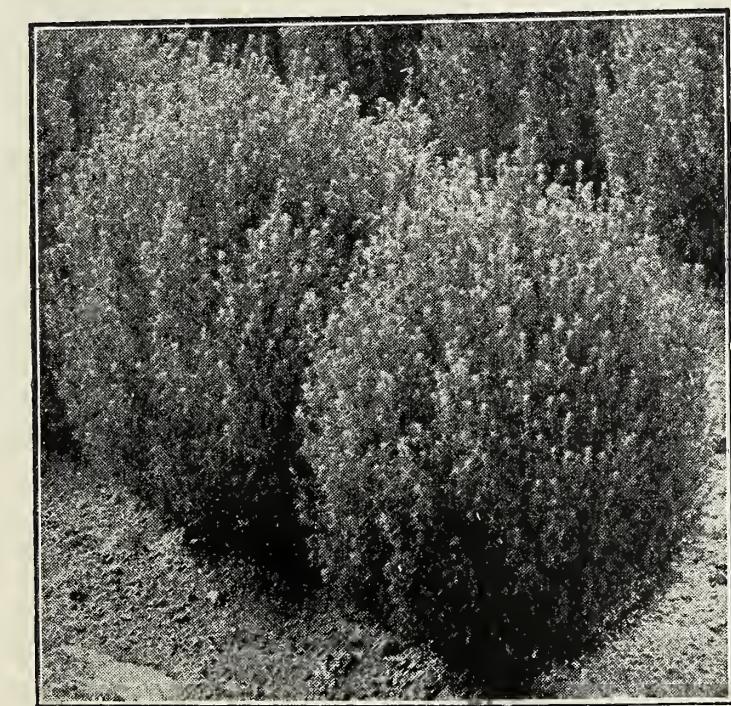
Love-in-a-Mist (*Nigella*) Also known as Lady-in-the-Green and as Devil-in-a-Bush, because the blossoms are partly concealed by the finely cut foliage. The large oddly shaped flowers are surrounded by a very dense fringe or wreath of mossy fibres. Both plant and flower are handsome and require but little care. Hardy annual.

Damascena, fl. pl. Double blue flowers; one and one-half to two feet high.....Giant Pkt. 10c.

Lupin A very attractive free-flowering plant with long graceful terminal spikes of fragrant pea-shaped blossoms. Blooms early in the season and is desirable for cutting. Hardy annual; about three feet high.

Cruikshanki. Blossoms white, shaded with yellow, blue and purple.....Giant Pkt. 10c.

Malcomia Maritima—(See *Virginian Stock*)



Kochia (Mexican Fire Bush).

Marigold

No flower garden seems complete without this fine old-fashioned garden plant with its brilliant displays of yellow and orange, both tall and dwarf sorts, and with finely cut or entire bright green foliage. The African (*Tagete serecta*) varieties are tall, usually one and one-half to three feet, and are well adapted for large beds, backgrounds, or mixed borders.

The most luxuriant climber, Moon Flower.

MARIGOLD—continued

while the French (*Tagetes patula*) are more dwarf and are often used for borders and pot culture as well as bedding. All of these varieties have finely cut foliage, while the Pot Marigold (*Calendula officinalis*) has entire leaves, somewhat clasping the rather hardy stems. Hardy annuals; in bloom till frost comes.

African Double Dwarf, Lemon Colored. Very early and a profuse bloomer of very compact habit. One of the best of this class. Comes true from seed; about eighteen inches high. Desirable for shrubbery or mixed border Giant Pkt. 10c.

African Orange Quilled. A double variety with quilled petals; flowers showy, bloom very early and are used for cutting. Plants rather dwarf, about fifteen inches high.... Giant Pkt. 10c.

African El Dorado, Double. Flowers about three inches in diameter, imbricated, extremely double and in tints of primrose, orange, and gold. Two to three feet high.... Giant Pkt. 10c.

African Double Mixed. A tall mixture well adapted for large beds. About two feet high..... Giant Pkt. 5c.

French, Double Dwarf, Gold Striped. Brown and golden yellow; very double. Valuable for bedding; one foot high.... Giant Pkt. 10c.

French Legion of Honor (Little Brownie) A single, dwarf, bushy variety, very desirable for borders. The plants bear rich golden yellow flowers with garnet blotches in the center of each petal and are about 1 ft. high Giant Pkt. 10c.

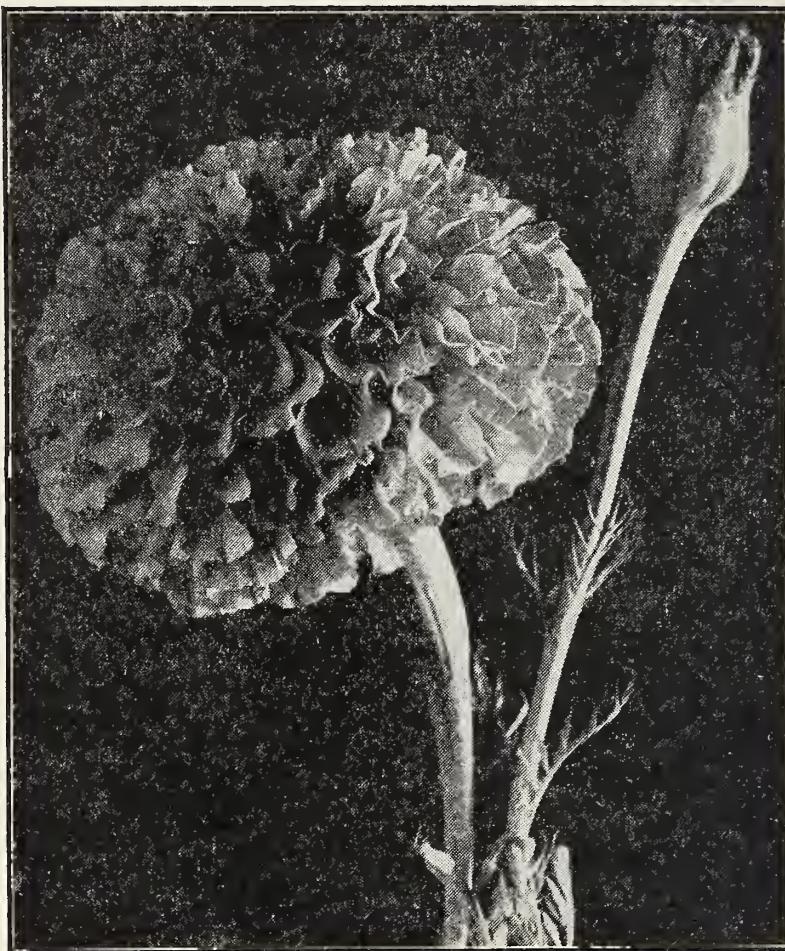
Tagetes Signata Pumila. A dwarf French sort with small, bright orange-yellow flowers; excellent for borders or massing. About twelve inches high..... Giant Pkt. 10c.

Prince of Orange (*Calendula officinalis* fl. pl.) This very distinct variety has large double, golden yellow flowers, the petals striped or shaded dark orange; produced in great abundance. Ht. of plant about 1 ft... Giant Pkt. 10c.

Meteor (*Calendula officinalis* fl. pl.) Large beautiful imbricated, double flowers; petals yellow, striped, or edged with orange. Desirable for beds, borders, and backgrounds. Two feet high..... Giant Pkt. 10c.

Marvel of Peru—(See Four O'clock)

Mathiola—(See Stock)



Marigold, El Dorado



Mignonette

Matricaria *Eximia grandiflora, fl. pl. (Double Feverfew)* Beautiful small white button-like double flower-heads. Plants of bushy growth, with very finely cut dark green foliage; desirable for bedding. Half hardy perennial, about two feet high.. Giant Pkt. 10c.

Maurandia Graceful slender climber with glossy ivy-shaped leaves. It produces an abundance of showy, irregular trumpet-shaped flowers, one and one-half inches long, usually purplish blue, white, or rose colored with lighter throat. Suitable for greenhouse and hanging baskets in the winter and very satisfactory outdoors especially if a small trellis is given as support. Tender perennial, blooming the first season; six to ten feet high.

Fine Mixed..... Giant Pkt. 10c.

Mexican Fire Bush—(See Kochia)

Mignonette (*Reseda*) A well-known hardy annual producing dense cone-shaped flower-spikes, made up of thickly set flowerets of modest colors. It is often used for cutting to combine in bouquets with other more pretentious flowers lacking its delicate and pleasing fragrance.

Hardy annual; one foot high.

Machet. Of dwarf and vigorous growth, with numerous stout flower stalks, terminated by large spikes of red flowers. This is one of the very best for pot culture. Giant Pkt. 10c.

Reseda odorata grandiflora. (Sweet) Large flowered, very sweet; light yellowish white..... Giant Pkt. 10c.

Mimosa Pudica (Sensitive Plant) A curious plant with globular heads of small pink flowers. chiefly valued because of the extreme irritability of its leaves which close and droop at the slightest touch, also in cloudy, damp weather and at night. Tender annual; height one and one-half feet. Giant Pkt. 10c.

Mimulus

Strikingly handsome flowers of easy cultivation. Perennial in the greenhouse, annual in the open air.

Moschatus. (*Musk Plant*) An attractive trailer with bright green foliage and many small yellow flowers of musky odor. Desirable for hanging baskets and window gardens..... Giant Pkt. 10c.

Cardinals grandiflorus. Dark red..... Giant Pkt. 10c.

Punctatus (Monkey Flower) Large curiously shaped yellow flowers, spotted with shades of red and rich maroon. An effective pot plant about eight inches high; blooms first year..... Giant Pkt. 10c.

Mirabilis—(See *Four O'Clock*)

Momordica

Gracefully climbing vines with small yellow blossoms, followed by fruits of curious shape. Foliage gracefully cut and although tender annuals, the vines run ten feet or more during the season. The seed is very hard and germination will be hastened if a notch is carefully cut through the shell before planting.

Balsam Pear (Charantia) The fruit is pear-shaped, green changing to bright red and has a warty skin; when ripe it bursts open and shows a brilliant interior of large carmine seeds..... Giant Pkt. 10c.

Balsam Apple (Balsamina) Like Balsam Pear but foliage smaller; fruit much smaller and nearly round, green striped when young, becoming scarlet..... Giant Pkt. 10c.

Moon Flower (*Ipomoea grandiflora albo*)

One of the most vigorous summer climbers and will grow under favorable conditions thirty to forty feet in a single season and be covered evenings and cloudy days with very large, white trumpet-shaped flowers, widely extended, often four inches across. Leaves large frequently four to five inches across. Known as *Ipomoea Noctiflora* tender annual..... Giant Pkt. 10c.

Morning Glory (*Convolvulus major, Ipomoea purpurea*)

A handsome showy climber of easy culture and suitable for covering arbors, windows, trellises, old stumps, etc., if support be given the vines. The flowers are most brilliant in the morning.

Seed triangular, black, except white, which is light yellow. Hardy annual.
Mixed. Many shades from white to dark blue, red and striped..... Giant Pkt. 10c.

Giant Japanese Mixed. (Imperial) The flowers of this variety, are of largest size, often three inches or more across; some are brilliant red or rich blue, others are equally brilliant, with broad margins of clear white; some are striped or dotted with blue or red on white or lemon yellow ground, others are clouded with blue and red. The foliage in some plants comes plain green, in others it is mottled with white and shades of yellow or yellowish green. Seed black, larger than other varieties of Morning Glory..... Giant Pkt. 10c.

Mourning Bride (*Scabiosa or Sweet Scabious*)

An old-fashioned but most attractive flower. Its great abundance and long succession of richly colored, fragrant blossoms on long stems make it one of the most useful decorative plants of the garden. Desirable for cutting as well as for beds and borders. Flower heads about two inches across; flowerets double, surrounding the thimble-shaped cone, and giving a fancied resemblance to a pin cushion.

Hardy annual; about two to two and one-half feet high.

Double Mixed Colors include deep and light purple, scarlet, pure white and a dark mulberry red; some of the darker shades are tipped with white..... Giant Pkt. 10c.

Myrsinohyllum—(See *Smilax*)



Nasturtiums.

Nasturtium

Few plants are more easily grown or remain longer in bloom than the *Tropaeolum*, with its large shield-shaped leaves and beautifully irregular flowers having long spurs and brilliantly colored petals. In favorable soil flowers are produced in abundance throughout the season. Much used for window boxes.

Dwarf Varieties (*Tropaeolum minor*) Sometimes called Tom-Thumb sorts. The flowers are brilliant and attractive. The plants are evenly dwarf and are often used for a border. When about two inches high, thin so as to give each plant about one foot of room. Hardy annual; about one foot high.

Old fashioned but beautiful—Scabiosa.

NASTURTIUM—continued

Aurora. Flowers light reddish orange, veined with carmine.....	Giant Pkt. 10c.	Pearl. Pale yellow.....	Giant Pkt. 10c.
Bronze Colored. Bronze-orange.....	Giant Pkt. 10c.	Rose. A warm rose-pink.....	Giant Pkt. 10c.
Crimson. Dark crimson.....	Giant Pkt. 10c.	Scarlet. Scarlet-orange.....	Giant Pkt. 10c.
Empress of India. Small, compact plant; deep scarlet flowers; very dark foliage.....	Giant Pkt. 10c.	Schilling's Striped. Bright yellow with brownish red or maroon blotches and stripes.....	Giant Pkt. 10c.
King Theodore. Scarlet-maroon or brown-red flowers.....	Giant Pkt. 10c.	Yellow. Bright rich yellow.....	Giant Pkt. 10c.
		Dwarf Mixed. Many desirable shades and colors.....	Giant Pkt. 10c.

Trailing Varieties (*Tropaeolum Lobbian*) The *Lobbianum* differs from the common tall, climbing or running nasturtium in being a little smaller in leaf, more compact in growth, more floriferous and having richer, more varied colored flowers. When about two inches high thin to six inches apart. Give some support to the vines as soon as they begin to run and they will usually grow six to eight feet during the season. The trailing sorts are much used for covering arbors and trellises. Half hardy annual.

Brilliant. Intense scarlet-red dark foliage...	Giant Pkt. 10c.	King of the Blacks. Black-red or crimson-maroon, with darker markings; dark foliage.....	Giant Pkt. 10c.
Brilliant. Intense scarlet-red dark foliage...	Giant Pkt. 10c.	Light Yellow. Attractive light yellow or yellowish white with maroon stain.....	Giant Pkt. 10c.
Chestnut Brown. Rich red-maroon.....	Giant Pkt. 10c.	Queen Wilhelmina. Foliage variegated, being marbled and veined with light green and white. Flowers rosy scarlet.....	Giant Pkt. 10c.
Giant of Battles. Sulphur, red blotches....	Giant Pkt. 10c.	Rose. Bright and attractive.....	Giant Pkt. 10c.
Hemisphaericum. Straw, blotched and suffused orange-scarlet; very large foliage, very strong growing, usually twelve to fifteen feet high...	Giant Pkt. 10c.	Spitfire. Bright, fiery scarlet flowers; very floriferous.....	Giant Pkt. 10c.
Jupiter. Very large, golden-yellow flowers; very large foliage, very strong growing, usually twelve to fifteen feet high; free blooming.....	Giant Pkt. 10c.	Trailing Mixed. <i>Lobbianum</i> varieties. A wide range of colors and shades.....	Giant Pkt. 10c.

King of the Blacks. Black-red or crimson-maroon, with darker markings; dark foliage.....	Giant Pkt. 10c.
Light Yellow. Attractive light yellow or yellowish white with maroon stain.....	Giant Pkt. 10c.
Queen Wilhelmina. Foliage variegated, being marbled and veined with light green and white. Flowers rosy scarlet.....	Giant Pkt. 10c.
Rose. Bright and attractive.....	Giant Pkt. 10c.
Spitfire. Bright, fiery scarlet flowers; very floriferous.....	Giant Pkt. 10c.
Trailing Mixed. <i>Lobbianum</i> varieties. A wide range of colors and shades.....	Giant Pkt. 10c.

Madame Gunter's Hybrid Nasturtiums. The flowers are striped or blotched with shades of red on yellow and orange ground, forming a combination of exceeding brilliancy and beauty. About four feet high. Half hardy annual.....

Chameleon Nasturtiums. Almost every shade of color and marking known to nasturtiums; continually changing from day to day. Attractive strains.

Dwarf Chameleon. Giant Pkt. 10c.
Trailing Chameleon. Giant Pkt. 10c.

Nicotiana

Handsome bedding plants of the tobacco family, valuable for long and free blooming. The flowers are salver-shaped, with long tubular corollas. Half hardy annuals; about three feet high.

Affinis. Flowers large, white and fully expanded only in evening or cloudy days. Very fragrant. Giant Pkt. 10c.

Nigella—(See *Love-in-a-Mist*) **Enothera**—(See *Primrose*)

Oxalis

Very pretty, spreading herbaceous plants with clover-like leaves and richly colored blossoms. They are especially desirable for house culture as hanging-basket or window plants and are cultivated also in borders and rockeries.

Half hardy perennial; six to nine inches high.

Rosea. Rose colored or light purple flowers, star-shaped, borne in large clusters on long stems.....

Giant Pkt. 10c.

Pansies

Pansies are now produced in an almost infinite variety of colors and markings. Their brilliancy of shading, extended season of blooming and long keeping characteristics make them general favorites. The strains now offered are far superior to the old *Heart's Ease* or *Viola Tricolor* and the esteem in which they were held by older generations has been heightened by the greater variety and more brilliant colors of the improved sorts. We

have been interested in the bringing forward of advanced types of very large varieties in this country as well as in Europe, and our stocks are the very best obtainable. We spare neither pains nor expense to satisfy the most critical trade. While the variations in shades of color and markings appear almost limitless, our list includes the very best strains the world produces.

Hardy perennial, four to six inches high.

LARGE FLOWERING

King of the Blacks (<i>Faust</i>) Large velvety, pure black blossoms. This is probably the darkest flower grown.....	Giant Pkt. 10c.
Meteor. The flowers are large, rich, velvety red or mahogany. Excellent for massing or edgings. Very hardy.....	Giant Pkt. 10c.
Pure Yellow. Brilliant, deep lemon yellow color, large flowering variety.....	Giant Pkt. 10c.
Variegated and Striped. The flowers of this variety are beautifully striped in various colors; very rich and attractive.	Giant Pkt. 10c.
Violet White Edged. Deep warm violet, edged white.....	Giant Pkt. 10c.
White. Flowers large and of fine form. An early and very floriferous strain.....	Giant Pkt. 10c.
Choice Mixed. Seeds saved from large flowering sorts. A special mixture in a wide range of colors, shades and markings.....	Giant Pkt. 10c.

Nasturtiums—profuse bloomers with little care.

PANSIES--Continued

GIANT FLOWERING

Bugnot's Very Large Stained Mixed. An exceptionally fine mixture of very large, blotched and stained flowers. Each petal distinctly blotched, and its margin usually veined. Sturdy plants. Many shades.....Giant Pkt. 15c.

Emperor William. Deep lavender-blue petals, dark Prussian, blue about the eye; very large flowering...Giant Pkt. 10c.

Superbissima Blotched. Very large flowers of exceptionally fine form and substance, usually ruffled and beautifully veined and blotched in all the finer and deeper shades and colors found in pansies. Plants very vigorous and floriferous. Superior to rather than simply different from old strains. Flowers of Mammoth size. Borne on stout stems, making them invaluable for cuts. The most desirable sort for Florist's useGiant Pkt. 25c.

Giant Blue Black. Very large flowers; a rich velvety purple, almost black.....Giant Pkt. 10c.

Giant Flowering Parisian Mixed. The flowers of this splendid mixture are of largest size, very fine form and range of colors, often in the lighter shades. Each petal is usually beautifully blotched.....Giant Pkt. 10c.

Giant Trimadeau Mixed. Our stock of this variety produces the largest pansies grown. Flowers of richest, most varied shades; generally marked with three large blotches. Plants very hardy and vigorous. We recommend this mixture as one sure to give general satisfaction where conditions are at all suitable for pansy growth.....Giant Pkt. 10c.

Giant Yellow (*Trimardeau*) Very large yellow flowers with large black centers. A very distinct and attractive variety.....Giant Pkt. 15c.

Lord Beaconsfield. The lower petals are very deep violet-purple, shading in upper petals to white, slightly tinted with purple. The flowers are very large and finely formed.....Giant Pkt. 10c.

Odier, or Very Large Stained, mixed. Known also as Cassier's. Very large flowers, distinctly veined and each petal beautifully blotched. This is a very fine strain of pansies with wide range of splendid colors. Sturdy plants, very vigorous and floriferous. Giant Pkt. 15c.

Extra Choice Mixed. From best named flowers of very large size. An extra fine Trimardeau mixture, very superior in size, form, coloring, and substanceGiant Pkt. 10c.

Peas, Everlasting (*Lathyrus Sutifolius*) An easily grown, hardy perennial climber with smaller flowers lacking the fragrance of Sweet Peas, but producing for many weeks a succession of blossoms in clusters of eight to ten each. Only a few flowers can be expected the second season but in the third and fourth, the plants then being well established, an abundance of foliage and blossoms is afforded. The plants die down late in the fall, and start again in the spring.

The perennial sorts are suitable for covering stumps and fences, and on a trellis will often grow five to six feet.

Mixed. Includes white, rose, and purple flowers. Giant Pkt. 10c.

Pelargonium—(See *Geranium*)

Pentstemon Handsome, half hardy, herbaceous perennials about two feet high and very desirable for bedding and borders. They usually bloom the first year, especially if started early. The flowers are bell-shaped or tubular, an inch and a half long, and are borne in racemes or spikes. The colors include white and various shades of red and purplish red striped with white. MixedGiant Pkt. 10c.

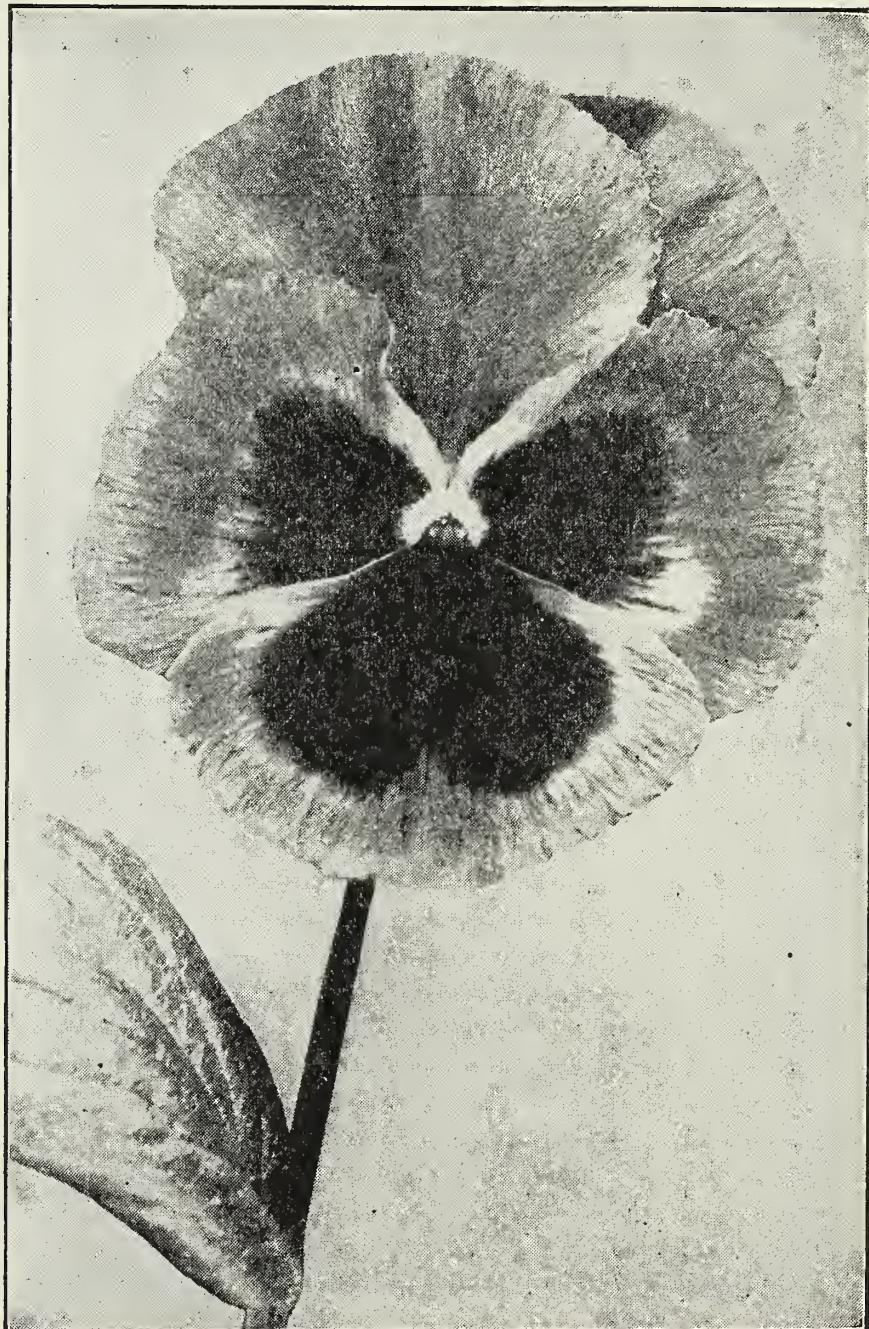
Peony (*Paeonia herbacea Chinensis*) Well-known herbaceous perennial plants, with very double flowers and abundant dark green foliage, which may be grown either from seed or roots.

Double MixedGiant Pkt. 25c.

Plants are three feet high.

Double MixedGiant Pkt. 25c.

Periwinkle—(See *Vinca*)



Superbissima Mixed.

About April 15th, weather permitting, we carry a full line of Potted Plants including all varieties of annuals also perennials for bedding out. Get our prices before buying elsewhere as we have connections with the largest and most reliable growers of these varieties assuring you best prices possible.

Petunia

Petunias are unsurpassed for massing in beds. They also are used along walks and drives and are often grown in window boxes. Their richness of color, duration of bloom and easy culture will always make them popular. They endure drought exceptionally well. The full, double petunias do not produce seeds. To procure double flowers one must use the seeds saved from single flowers which have been fertilized by hand with pollen from the double ones. The seed we offer is the result of careful hybridization and can be depended upon to give as large a proportion of double flowers as any.

In some strains the flowers are very large, measuring four to five inches across; in others, they are deeply fringed; still others have star-like markings radiating from the throat and extending nearly or quite to the outer margin of the blossom; again, others have full, double flowers. The colors range from white to deep red-purple, and are variously striped and blotched. Tender perennial blooming the first year; about one half foot high.

Inimitable. Finest blotched and striped.....	Giant Pkt. 20c.
Howard's Star. All shades with distinct star in the center.....	Giant Pkt. 10c.
Balcony. Red, rose and white.....	Giant Pkt. 10c.
Compacta Snowball. Pure white.....	Giant Pkt. 10c.
Compacta, Rosy Morn. Extra fine pink.....	Giant Pkt. 10c.
California Giants. The very finest strain, mixed.....	Giant Pkt. 20c.
Double Giants. Fringed, none finer to be had.....	Giant Pkt. 25c.
Hybrida. Mixed.....	Giant Pkt. 10c.

Phlox

Drummondii

(Large Flowering) Unequalled in the magnificent display of their many and brilliantly colored flowers. The plants are hardy bush-like annuals with many broad flat-topped clusters of nearly round and star-shaped flowers. They are of easiest culture and bloom profusely through a long season. Especially attractive in masses or ribbon beds of contrasted colors; useful as window-garden plants and very desirable for combining in mixed bouquets.

Hardy annual; one foot high.

Grandiflora. Crimson.....	Giant Pkt. 10c.
Flesh...Giant Pkt. 10c.	
Lilac...Giant Pkt. 10c.	
Primrose	
.....Giant Pkt. 10c.	
White...Giant Pkt. 10c.	

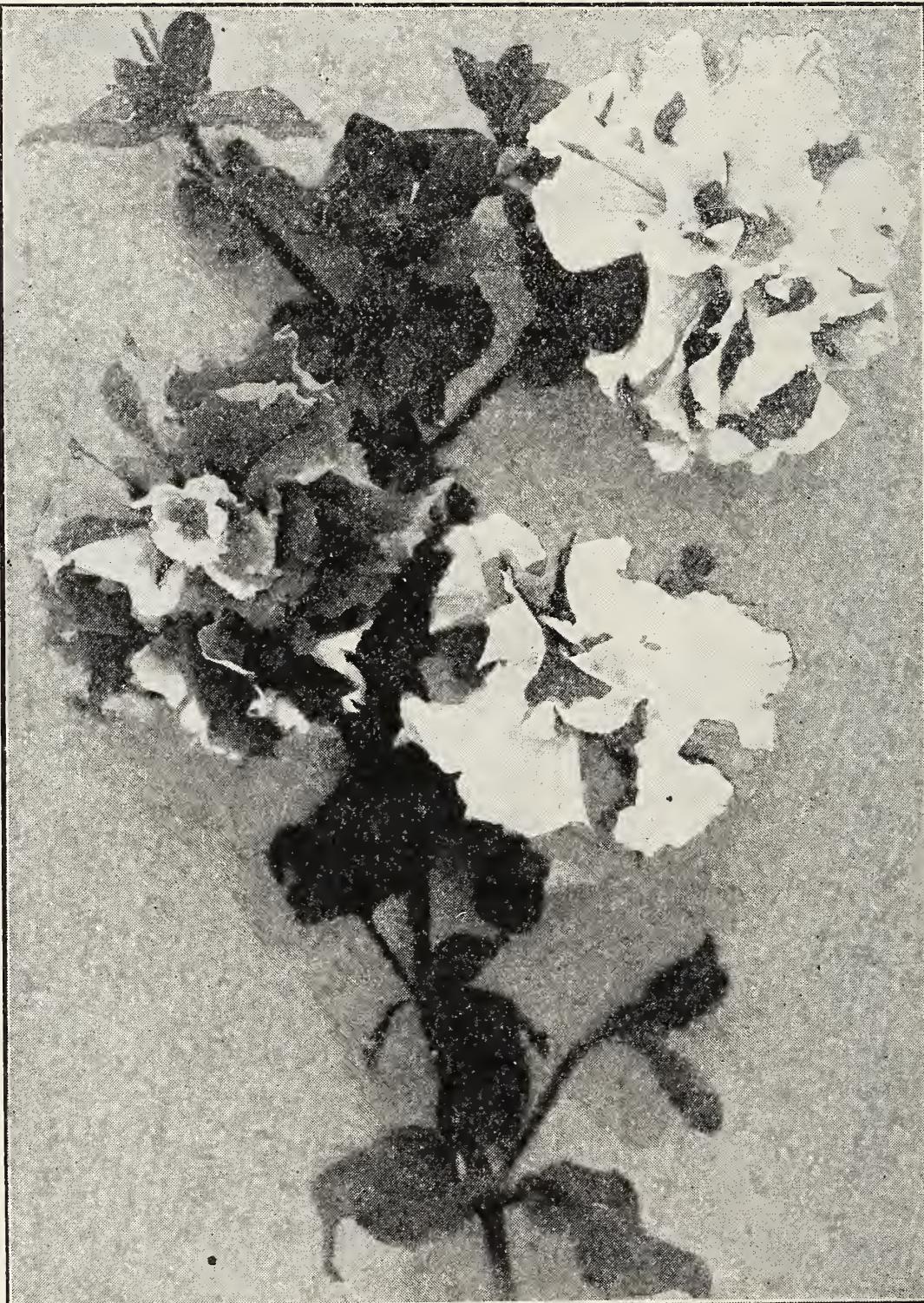
Extra Choice Mixed. Best large flowered varieties. Our mixture is unexcelled for profusion of bloom and wide range of brilliant colors.

Giant Pkt 10c.

Pinks

(*Dianthus*)

The *Dianthus* family furnishes many of the most beautiful and profitable flowers, including the Carnation, Sweet William, Chinese and Japanese Pinks, in all their varieties. The Pinks are old-fashioned favorites and as a class are more varied in color than the Carnations but lack their fragrance. Both the single and double Pinks are well adapted for bedding and borders, and are suitable also for cutting, as the stems are of good length and the brilliantly colored flowers, often one and one-half to two inches across, contrast vividly with the rather narrow bright light green leaves.



Double Petunias

Royal Pinks (*Hedgewigi nobilis*) These very large, single flowers afford a wide range of colors. Petals deeply cut and fringed and flowers in splendid shades from blood-red to carmine, pink, and even white. Plants dwarf and very free flowering..... Giant Pkt. 10c.

Hedgewig's Single Mixed. A splendid mixture of single flowers of the best shades and beautifully marked. Plants dwarf; very free flowering..... Giant Pkt. 10c.

Double China Mixed (*Chinensis*) White and dark crimson selves, also white tipped light purple and shades of red with dark blotchings. A mixture of double pinks unsurpassed in variety of brilliant coloring and marking..... Giant Pkt. 10c.

Poppy

(*Papaver*) These well-known hardy annuals and perennials flower in great profusion throughout the summer. Both the single and double varieties are very desirable for bedding and borders. The flowers are remarkable for their large size, delicacy of tissue and wide range of bright dazzling colors.

Annual Varieties

Shirley. A magnificent variety, producing through a long season large single flowers of charmingly delicate colors, ranging from pure white through shades of pink and rose to brightest scarlet and carmine-red. Some petals are of silky texture, others like tissue paper, some are plain, some crimped, and some wavy. If cut before the blooms are fully expanded, they will keep fresh in water for several days. Hardy annual, about twenty inches high.....Giant Pkt. 10c.

Tulip Flowered. Single bright scarlet tulip-shaped flowers, a black spot appearing at the base of each petal. Hardy annual, about one foot high.....Giant Pkt. 10c.

Cardinal. Flowers very large and very double, each petal being so finely cut as to give the blossom the appearance of a large ball of brilliant cardinal colored silk. One of the finest poppies in cultivation. Hardy annual, two feet high.....Giant Pkt. 10c.

Double White Fringed. The finest double white poppy. Plant upright growing and floriferous. Flowers three to four inches across, perfectly double, finely fringed. Hardy annual, two feet high.....Giant Pkt. 10c.

Double Carnation Mixed. Large showy double fringed flowers of various colors; hardy annual, about two feet high.....Giant Pkt. 10c.

Double Choice Mixed. Very large, double poppies in a variety of colors. Some petals quite broad, others finely fringed. About two feet high.....Giant Pkt. 10c.

Perennial Varieties

Perennial poppies do best in rows one and one-half feet apart and one foot apart in the row. The plants have stout, leafy flower-stalks; leaves rough, pinnately parted; lobes oblong-lanceolate, toothed. Seed may be sown outdoors either in spring or fall.

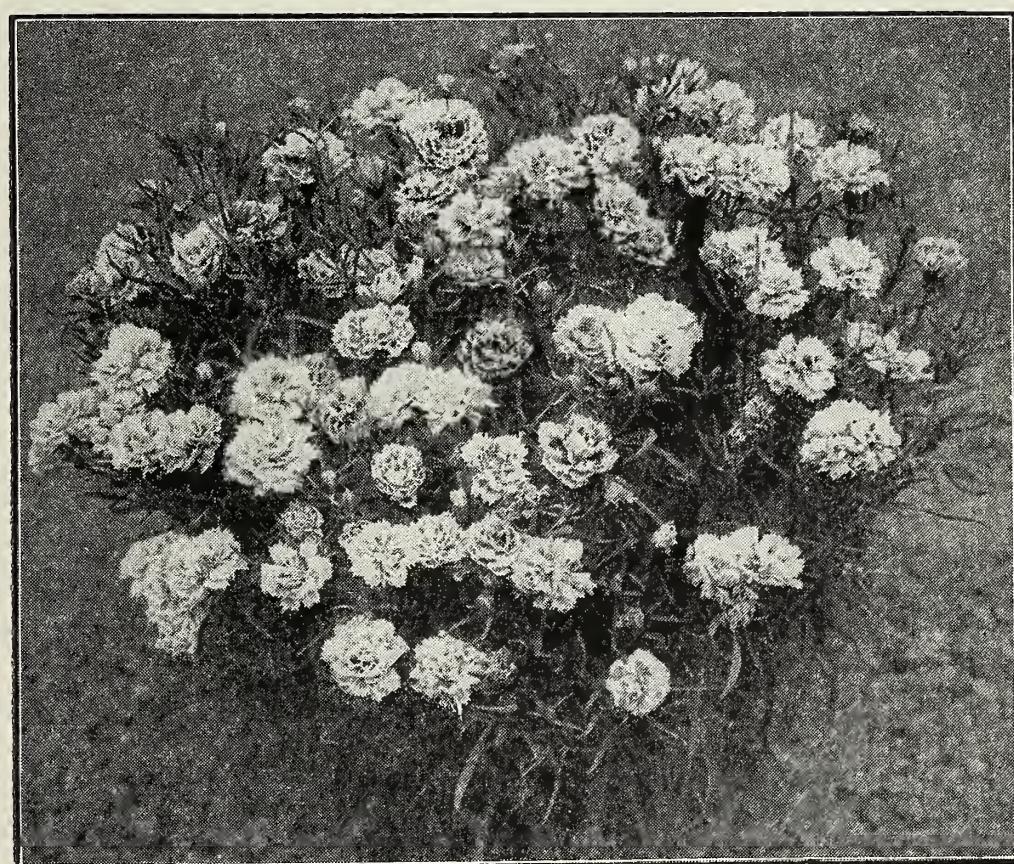
Bracteatum. Flowers very large, single brilliant orange-crimson; base of petals bluish black. A garden perennial of most striking appearance; about two feet high.....Giant Pkt. 10c.

Oriente. Very large single gorgeous scarlet blossoms; base of petals bluish black. One of the most showy garden perennials; about two feet high.....Giant Pkt. 10.

The Carnation Poppy is an improved double form of the single *Papaver Somniferum*, used for the extraction of opium. We do not furnish seed of the opium poppy.



Single Pinks



Double Pinks

Portulaca

Sometimes called Rose Moss. Few flowers make such a dazzling display of color in the bright sunshine as a bed of portulacas. The glossy cup-shaped single flowers and rose-like double flowers, about one inch across, range through many shades of red, white, pink, orange, yellow, striped, etc. Plants low growing or creeping with thick fleshy stems tinged with red and small quill-shaped leaves. Desirable also for edgings. They are in bloom through a long season.

Tender annual; about nine inches high. Fine Mixed. A wide range of colors. Giant Pkt. 10c.

DOUBLE FINE

The seed we offer can be depended upon for a large proportion of fine, very double flowers and the few that come single can be pulled out if desired.

Double Mixed. Many beautiful shades. Giant Pkt. 10c.

Poor Man's Orchid—(See *Schizanthus*)

Primrose, Evening

(*Oenothera*) Large, showy saucer-shaped blossoms, usually fully expanded only towards and during evening. The blossoms are yellow or white and are very freely produced.

Phlox. Colors brilliant, unequaled.

Pyrethrum

Very ornamental, both foliage and flowers. Well adapted for bedding and borders. (See also *Matricaria*.)

Parthenifolium Aureum (Golden Feather) Beautiful dwarf gold leaved bedding plant. Flowers white. Half hardy perennial, often treated as an annual; height one foot. Giant Pkt. 5c.

Parthenifolium Aureum Selaginoides. Finely cut, fern-like leaves of bright golden yellow color. Extra fine for bedding. Half hardy perennial; twelve to fifteen inches high. Giant Pkt. 10c.

Rhodanthe One of the most beautiful everlastings. Sometimes called Straw Flower. The flower heads are somewhat bellshaped, becoming when gracefully poised on slender stems. The mixture we offer includes rose with golden center and white with yellow disc. Blooms should be gathered before fully expanded and dried in the shade. The leaves are glaucous, clasping and are oval or elliptical in shape.

Tender annual; one and one-half to two feet high. Mixed Giant Pkt. 5c.

Ricinus—(See *Castor Bean*)

Rocket, Sweet (*Hesperis matronalis*) Produces loose clusters of flowers very fragrant during the evening and useful for cutting. Flowers cruciform, somewhat resembling the single Stock but smaller.

Hardy perennial.

Purple. Plants two and one-half to three feet high. Giant Pkt. 10c.

White. About two feet high. Giant Pkt. 10c.

Rose Multiflora Dwarf Perpetual, Mixed. Plants under good care will commence to flower when six inches high and about two months old, and continue to grow and bloom until they form compact bushes about sixteen inches high, well covered with single and double flowers.

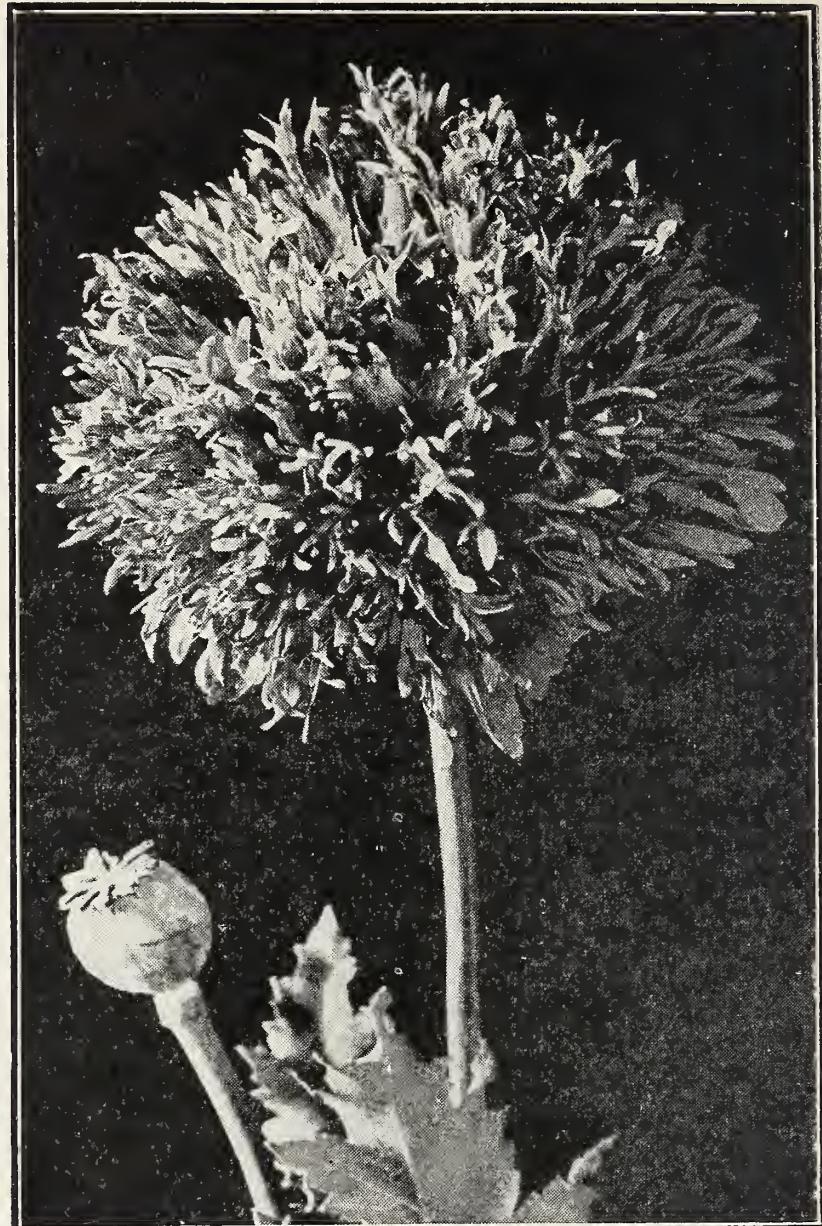
Tender perennial; blooming the first year. Giant Pkt. 15c.

Rose Moss—(See *Portulaca*)

Salpiglossis Very showy bedding or border plants with richly colored, funnel-shaped flowers which are purple, scarlet, crimson, yellow, buff, blue, or almost black, beautifully marbled and penciled.

Half hardy annual; about two feet high.

Fine Mixed. Hybrids. Easily grown large, long stemmed flowers, in many beautiful shades and markings. Giant Pkt. 10c.



Cardinal Poppy

Large Flowering Mixed. A mixture of improved dwarf, very large flowering sorts, more compact than ordinary varieties and with much larger, more richly colored flowers. Giant Pkt. 10c.

(Flowering Sage) Among the most brilliantly colored of garden flowers and extremely useful for bedding; also valuable for pot culture and cutting.

Blooms are borne in long spikes well above the foliage and are of fiery red, crimson, or blue, continuing in flower a long time. The densely filled flower spikes are often eight to ten inches long and includes thirty or more tube-like florets, one to two inches in length.

Tender perennial, but blooms the first season; height one and one-half to three feet.

Splendens. Sold also as "Splendens Bonfire." The large, brilliant scarlet flowers are in very striking contrast with the rich, dark green background of dense foliage. This variety is most generally used in parks and on extensive lawns, as it is more vigorous than the dwarf varieties. One of the most distinct and effective bedding plants. Two and one-half to three feet high. Giant Pkt. 10c.

Patens. One of the finest blue flowers known; not as well suited for bedding as the other varieties of salvia, but very attractive in the mixed border or in the greenhouse. Height of plant, about one and one-half or two feet. Giant Pkt. 10c.

Fireball. Many strains of Salvia Splendens have been offered under different names claiming they are larger flowered or more floriferous than the old type. We have found none more valuable than this strain in which the plant is more uniformly dwarf, and comes into bloom earlier than most sorts and remains covered with brilliant red flower spikes a remarkably long time. About two feet high. Giant Pkt. 10c.

Scabiosa—(See *Mourning Bride*)

Scarlet Flax—(See *Linum*)

Schizanthus *Retusus trimaculatus*. Also known as *Butterfly Flower* or *Poor Man's Orchid*. Dainty compact branching plants with finely cut foliage, covered when in bloom with clusters or spikes of brilliantly colored butterfly-like flowers. Valuable for garden decoration or pot culture. Petals bright yellow with margins and tube of carmine or purple-rose, shading from lighter to darker shades.

Hardy annual; about twenty inches high. Giant Pkt. 15c.

Sensitive Plant—(See *Mimosa Pudica*)

For a dazzling display in a sunny place don't forget *Portulaca*.

Smilax (*Myrsiphyllum asparagoides*) No twining plant in cultivation surpasses this in graceful beauty of foliage. Indispensable to florists for table and house decoration. The hard texture of its small glossy green leaves permits the long delicate sprays of foliage to be kept without wilting several days after being cut.

Tender perennial climber, ten feet high... Giant Pkt. 10c.

Snapdragon

son is now one of the best perennials suitable for flowering as an annual. The long showy spikes of curiously shaped tubular flowers with irregular spreading lobes and finely marked throats are fragrant as well as brilliantly colored. They are very desirable for cutting as the spikes of bloom are borne well above the dark glossy leaves and keep fresh for a long time. Tender perennial, often treated as annual or biennial; one and one-half to two feet high.

Tall. Pink, white, scarlet, yellow, mixed.... Giant Pkt. 10c.

Dwarf. Pink, white, scarlet, yellow and mixed..... Giant Pkt. 10c.

Primula Sinensis

(*Chinese Primrose*) This beautiful winter blooming pot plant is especially valuable in that its brightly colored and finely formed flowers and prettily cut foliage may be had in perfection from November until late in spring. The splendid salver-formed flowers are produced in large clusters.

Green-house perennial, six to ten inches high.

Single Fringed, Choicest Mixed..... Giant Pkt. 25c.

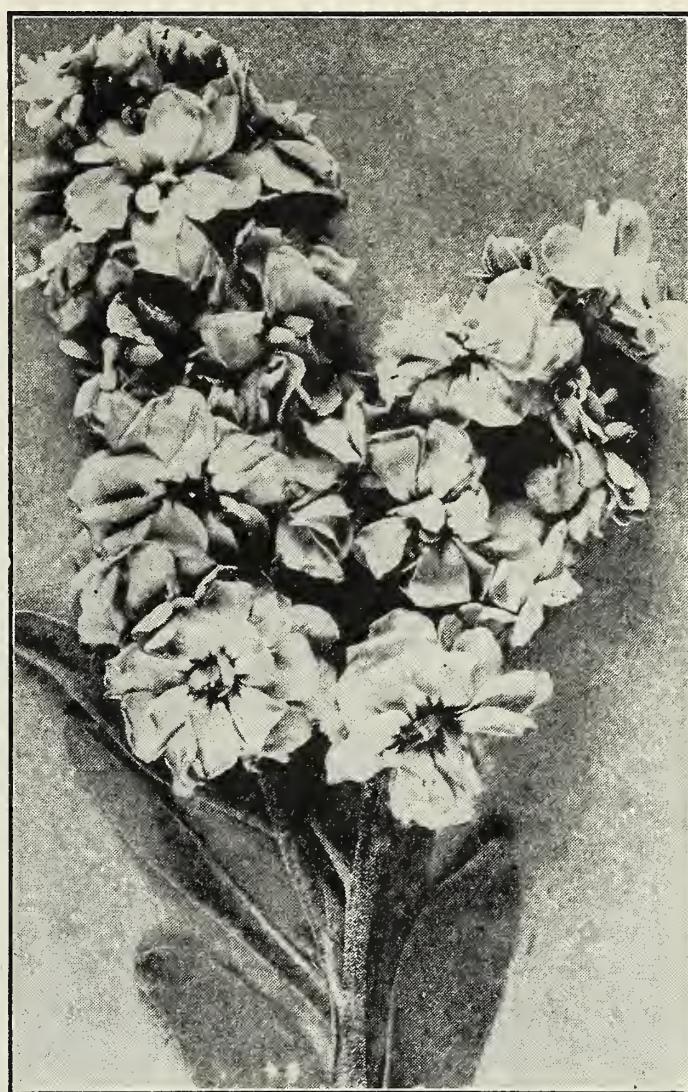
Double Fringed Mixed. Very choice; shades of red, rose, white, etc. The seed we offer can be depended on to produce a very large proportion of double flowers.

..... Giant Pkt. 25c.

Stock

(*Mathiola*) Sometimes called Gilliflower. Considered almost indispensable where a fine display of flowers is wanted and particularly valued for edgings, bedding, and

pot culture. The improved varieties we offer of this favorite garden plant produce dense spikes of very fragrant and beautiful rosette-like double flowers in a wide range of attractive colors. They are suitable for cutting, being



Stock, Double German Ten Weeks

produced on stems of good length in pleasing contrast with the dark green foliage of the busy plants. Each of the four types is of long flowering period, and if the earlier ones are started indoors, a profusion of fragrant and pleasing flowers is afforded for the entire season.

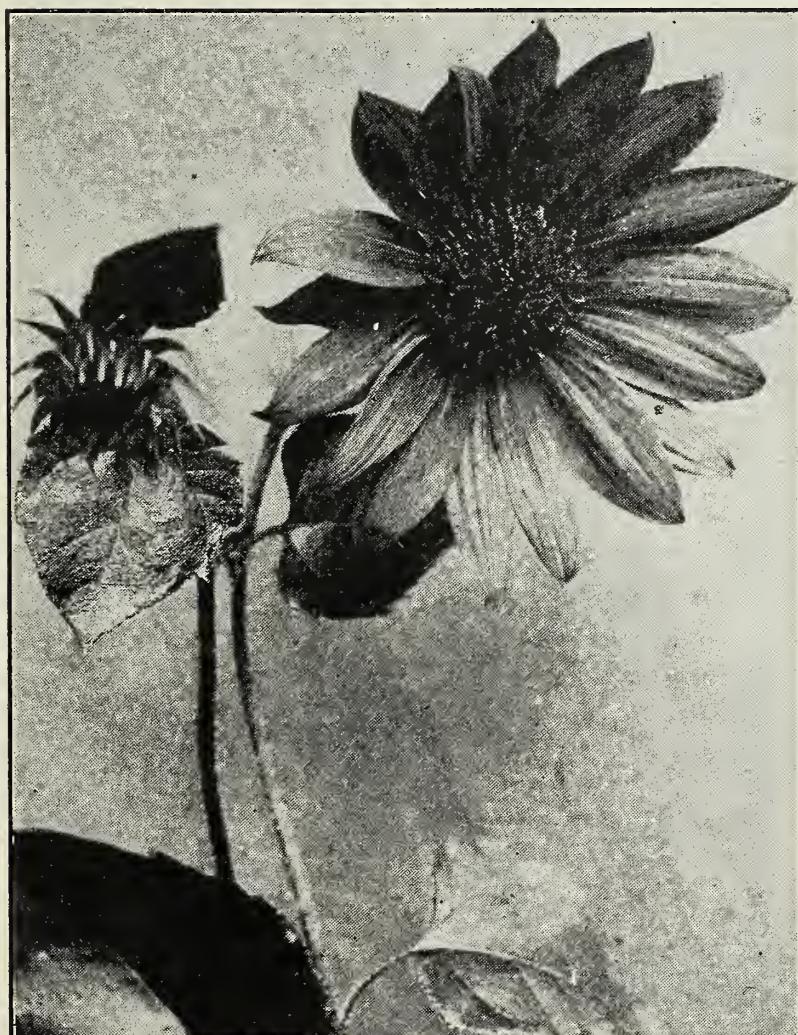
Height of plants one to one and one-half feet.

Dwarf Large Flowering. Lilac, pink, yellow, purple, red, white and mixed..... Giant Pkt. 10c.

Early Large Flowering. La France, Brilliant, Princess Alice, Crimson, Monte Blanc, Almond Blossom and mixed..... Giant Pkt. 10c.

Cut and Come Again. Lilac, pink, yellow, purple, red, white and mixed..... Giant Pkt. 10c.

Mammoth Flowering. Lilac, pink, yellow, purple, red, white and mixed..... Giant Pkt. 10c.



Sunflower, Stella

Sunflower

(*Helianthus*) These stately, old-fashioned flowers with the newer improved varieties are coming into special favor as a background for lawns and in front of high fences. Valuable also as a screen to hide unsightly places and sometimes used to mitigate the evil of adjacent swamp holes. Their very tall dense growth and bright yellow disc-like flowers of very large size and long blooming period make them one of the most deserving and useful of hardy annuals.

Red Sunflower. Plants erect, robust, about three feet high, flowers intense red..... Giant Pkt. 10c.

Double Chrysanthemum Flowered. The most attractive of the very double sunflowers. Plant tall, growing seven feet high and blooming profusely all summer. Flowers very large, often eight to ten inches across, very double, with long fringed petals and resemble chrysanthemums. The color is a splendid, rich, golden-yellow, free from any black center..... Giant Pkt. 10c.

Stella. The plant of this fine variety is spreading with many branches and attains a height of about three feet. The flowers are about three inches in diameter and are of an unusually pure golden yellow with black discs or centers, and are borne on long stems well above the foliage. Early blooming and produced in abundance throughout a long season..... Giant Pkt. 10c.

Straw Flower—(See *Helichrysum* and *Rhodanthe*)

Sweet Rocket—(See *Rocket*)

Market Gardeners' Seed Co. Fancy Sweet Peas

(*Lathyrus odoratus*) No garden is too small for a row of Sweet Peas and no estate, however extensive or magnificent, should fail to include many varieties of this most popular flower. Its long blooming season usually extends from early summer until very hot dry weather and no other climber equals it for cutting, either for use in bouquets or for table decoration.

Hundreds of varieties have been offered for sale by seedsmen but owing to recent marked improvements many sorts are decidedly inferior and have been dropped from our list.

In describing varieties, by "standard" is meant the wide petal at the top of the flower; the "wings" are the two petals below.

Extra Early Blanche Ferry and Earliest White, being the earliest known varieties are excellent for growing indoors.

For Outdoor Planting there are two general classes. The more extensive is the Grandiflora or large flowering division. This class, owing to its general vigor of growth, its freedom of blooming and extremely wide range of colors, is best suited for most conditions of growth and location.

The Spencers are of exceptionally large size, the standard and wings waved or frilled and the general effect remarkably graceful and attractive. A characteristic of the best Spencers is an "open keel." The petal or envelope enclosing the pistil, stamens and anthers is called the keel. In a typical Spencer flower grown under favorable conditions the anthers and stigma are not clamped together and the envelope of the keel is large and baggy and open at the top. The plants of Spencer varieties are usually in bloom much longer than other sweet peas, as most of the blossoms fall off after maturity without setting pods. The Spencers are decidedly shy seeders, hence the price will doubtless always be higher than for the older types.

Culture. Early in spring make a trench three to four inches deep in rich, mellow, soil, so arranged that no water can stand in it and plant the seed in the bottom, covering at first only one inch deep. Sweet Peas, particularly the white seeded sorts, are often a little difficult to start. If the soil is too dry they will remain a long time without germinating; if it is too wet and cold they will not sprout at all. In soils at all heavy, or composed largely of clay, put about one inch of sand in the bottom of the trench and sow the seed on this, covering with more sand. Cover the row with a board to shed the rain and protect the soil from the hot sun but remove this as soon as the young plants appear.

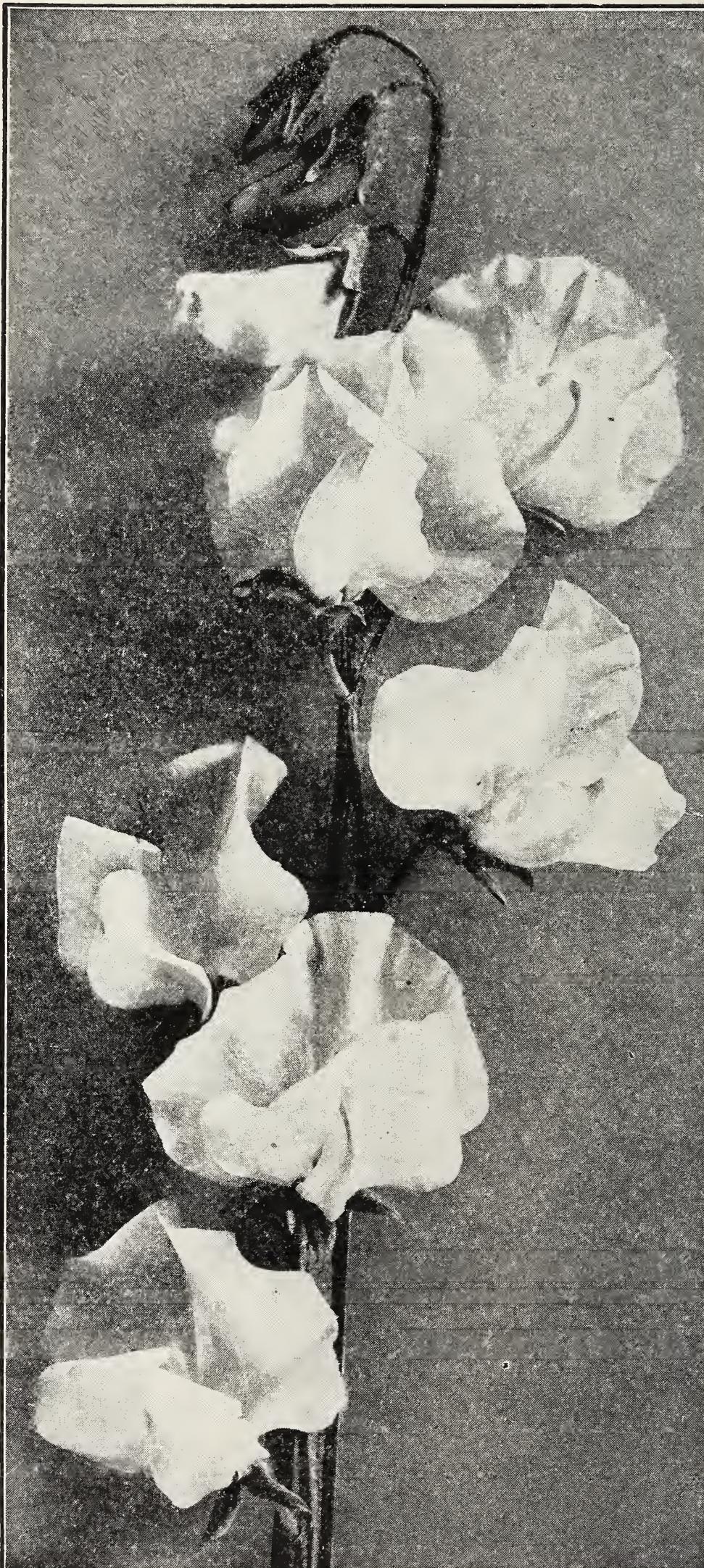
When the plants are two inches high, cultivate and as they grow gradually fill up the trench. When the plants are about five inches high it is desirable to furnish some support for the vines to run upon, preferably a wire netting firmly supported by stakes to prevent sagging, but strings or brush are often used with satisfactory results.

The roots should not be allowed to become too dry. Water applied thoroughly once or twice a week preferably early in the morning or in the evening, is usually better than light sprinkling more frequently.

For the aphis or plant louse, spraying with solutions of some tobacco extract or whale-oil soap is usually effective; and for the Red Spider, which also causes trouble at times, spraying with pure water is usually sufficient. A frequent change of location has also been found important.

A better growth of vine and earlier blooming often results from planting seed late in the fall instead of early in the spring.

The blooms should be picked before they form pods or the plants will soon stop flowering.



Sweet Peas, White Spencer.

Plant seeds that you possibly overlooked last season.

Market Gardeners' Seed Co. Fancy Sweet Peas—Continued

WRITE FOR SPECIAL PRICES ON LARGER QUANTITIES

SPENCER VARIETIES

This group includes the largest and most beautifully formed sweet peas. The Spencers have very large waxed flowers which are produced abundantly on long, strong stems, making the blossoms most desirable for cutting.

APPLE BLOSSOM SPENCER. Bright rose standard with wings of very light primrose flushed or tinted rose-carmine. Very large Spencer form. A free blooming sort and a very reliable bicolored sweet pea of robust growth. Giant Pkt. 10c; Oz. 35c.

ASTA OHN. Suffused lavender or tinted mauve sometimes with pinkish tinge. Spencer form, large and wavy. The best of the deeper lavender sweet peas. Giant Pkt. 10c; Oz. 35c.

BLANCHE FERRY SPENCER. This is similar in color to the old Blanche Ferry, but like all Spencers, the type is not unalterably fixed. Rose-pink standard; wings white, suffused and tinted with light pink. It is a very pleasing bi-colored sweet pea and is one of the most attractive varieties yet introduced. Giant Pkt. 10c; Oz. 40c.

CAPTAIN OF THE BLUES SPENCER. Purple, with blue wings, beautifully waved; margin of petals marbled. Flowers of large Spencer form, but lighter shade than Captain of the Blues; more truly Waverly Spencer in color. A very distinct and pleasing variety. Giant Pkt. 10c; Oz. 35c.

COUNTESS SPENCER. Bright clear pink sometimes darker towards the edges; very large, open form; long stems. The first variety introduced of the Spencer type and still the best deep pink sweet pea. Giant Pkt. 5c; Oz. 30c.

GEORGE HERBERT. A bright, rose-crimson or rose-carmine Spencer variety of large size suffused with magenta and showing veins in wings. Both standard and wings beautifully waved. The best carmine and rose sweet pea yet introduced. Giant Pkt. 10c; Oz. 30c.

LOYALTY SPENCER. Bright blue flaked and striped on white ground. Flowers of large Spencer form. The best blue striped sort yet introduced. Giant Pkt. 10c; Oz. \$1.00.

OTHELLO SPENCER. A beautiful, deep, pure maroon of very large Spencer type. The most reliable of the maroon shades of Spencers. Giant Pkt. 10; Oz. 35c.

PRIMROSE SPENCER. We consider this the best primrose, or cream and ivory sweet pea yet developed. Spencer type, large wavy petals, frilled at edges; clear, distinct color. Seed white. Giant Pkt. 10c; Oz. 35c.

STIRLING STENT. A rich, deep, metallic salmon, suffused with orange. A beautiful Spencer, especially in artificial light, requiring shading to show true color. Giant Pkt. 10; Oz. \$1.00.

WHITE SPENCER. Standard and wings of pure white, beautifully waved and fluted. An especially attractive variety of very large size. Seed white. One of the very best white sweet peas. Giant Pkt. 10c; Oz. 75.

GRANDIFLORA VARIETIES

The Grandifloras, sometimes called the Eckford class, are an older type than the Waved or Spencer sorts, and the flowers are not so large. They are not so long in bloom, but are decidedly cheaper and more easily grown. In addition to the classification by colors, there are two typical forms of grandifloras recognized, the "open form" and the "hooded form," referring to the shape of the standard. In the open form, illustrated by Blanche Ferry, Katherine Tracy, and King Edward VII., the standard is nearly round, smooth, and straight on the edges. The standard in the hooded form, of which well known examples are Dorothy Eckford, Countess of Radnor and Othello, has slightly rolling sides at the top, giving the flower a shell-shaped appearance.

A group of Early Flowering sorts, sometimes called the Christmas class, includes as representative varieties Extra Early Blanche Ferry, Earliest White, and Mont Blanc.

WHITE

EARLIEST WHITE. The earliest blooming white sweet pea. Hooded form. Seed black. A most desirable variety for forcing. Giant Pkt. 10c; Oz. 15c.

EMILY HENDERSON. A clear white of open form. Early, free bloomer. Seed white. Giant Pkt. 10c; Oz. 10c.

PRIMROSE OR VERY LIGHT YELLOW

HON. MRS. E. KENYON. Clear primrose; large semi-hooded flower. White seeded. Giant Pkt. 10c; Oz. 15c.

MRS. COLLIER. A lighter shade of primrose than Mrs. Kenyon. Seed white. Giant Pkt. 10c; Oz. 15c.

LIGHT PINK

KATHERINE TRACY. Flowers soft but brilliant pink; open form. The plants are vigorous, and give a profusion of flowers which continue of good size until the end of the season. Giant Pkt. 10c; Oz. 15c.

LOVELY. The flowers are large, abundantly produced and of attractive hooded form. Standard and wings both deep pink shading to very light pink at edges; white ground. The plants often have four flowers on a stem. One of the best of this class. Giant Pkt. 10c; Oz. 15c.

Our Spencer Sweet Peas are the best ever. Try them.

Market Gardeners' Seed Co. Fancy Sweet Peas—Continued

WRITE FOR SPECIAL PRICES ON LARGER QUANTITIES

GRANDIFLORA VARIETIES

ROSE WITH WHITE WINGS

BLANCHE FERRY. Blooms very early and continues to produce abundantly through a long season. Standard medium sized, open form, bright rose-pink; wings large, rounded, nearly white. Giant Pkt. 10c; Oz. 10c.

EXTRA EARLY BLANCHE FERRY. The earliest known sweet pea. Vines vigorous and hardy though of dwarf habit. It will be found to be the first to furnish flowers either in greenhouse or out of doors and it will continue to furnish them in great abundance longer than most varieties. Giant Pkt. 10c; Oz. 15c.

ORANGE PINK

MISS WILLMOTT. A fine orange-pink, showing veins of deeper tint. Flowers semi-hooded, good size, on long stems; plant very vigorous. Giant Pkt. 10c; Oz. 15c.

ST. GEORGE. Flowers flame color. The brightest of the orange-pink; large, of open form, and slightly waved Unwin type; wonderfully brilliant. Giant Pkt. 10c; Oz. 15c.

SHADES OF RED

KING EDWARD VII. Superior to Firefly. A bright crimson-scarlet or pure red of largest grandiflora size; open form. One of the very best. Giant Pkt. 10c; Oz. 15c.

PRINCE OF WALES. Flowers large, shell shaped; pure rose-crimson. A very attractive sort, larger and finer than Her Majesty. Giant Pkt. 10c; Oz. 15c.

SALOPIAN. Rich, cardinal-red, deeper than King Edward VII; large, hooded form. Giant Pkt. 10c; Oz. 20.

PINK AND RED STRIPES

AMERICA. Carmine striped and splashed on white ground. Open form, good size. Giant Pkt. 10c; Oz. 10c.

MRS. JOSEPH CHAMBERLAIN. Large flowers, hooded form; white, striped with light purplish rose. Giant Pkt. 10c; Oz. 15c.

LAVENDER AND LIGHT BLUE

COUNTESS OF RADNOR. A beautiful lavender of hooded form, nearly self-colored. Giant Pkt. 10c; Oz. 15c.

LADY GRISEL HAMILTON. A large, soft lavender, tinted mauve; similar to Countess of Radnor, but nearer blue; hooded form. One of the best. Giant Pkt. 10c; Oz. 15c.

MAUVE AND PURPLE

MRS. WALTER WRIGHT. A large, hooded, rosy purple. Superior to Dorothy Tenant. Giant Pkt. 10c; Oz. 15c.

ROMOLO PIAZANNI. Flowers rosy purple, changing to lilac and blue. Large size, hooded, and better than Fascination. Giant Pkt. 10c; Oz. 15c.

BLUE AND PURPLE

FLORA NORTON. Flowers light clear blue; medium size, hooded form. Giant Pkt. 10c; Oz. 15.

LORD NELSON. (Brilliant Blue) Deeper in color than Navy Blue; good size; semi-hooded. This is considered the best grandiflora dark blue. Giant Pkt. 10c; Oz. 15c.

BLUE AND MAROON STRIPES

HESTER. Large, open grandiflora type; purplish blue, marbled and shaded on white ground. Giant Pkt. 10c; Oz. 15c.

SENATOR. Purplish maroon and indigo heavily striped and splashed on light ground; medium size, hooded form. Giant Pkt. 10; Oz. 15.

VIOLET AND MAROON

OTHELLO. A very dark maroon, practically self-colored with almost black veining. Large size, hooded form, very attractive. Giant Pkt. 10c; Oz. 15c.

STANLEY. A deep maroon, warmer than Boreatton; good size, open form. Giant Pkt. 10c; Oz. 15.

Mixtures of Sweet Peas

Most people obtain more satisfaction from planting Sweet Peas in mixture than from growing named sorts, but to be successful it is necessary that the seed be of the best quality obtainable. Often what is offered as mixed seed is stock harvested from plants that have come up as volunteers on ground where Sweet Peas have been grown before, or a lot of seed which has been grown, saved, or handled so carelessly that it cannot be sold as any distinct variety. The use of such seeds will not give satisfactory results. We assure our customers the Mixtures of Sweet Peas which we offer are the results of as great care in selecting as any stocks we grow, and as fine flowers are obtained from them as from any seed that can be bought. We invite comparison with any and all others, no matter under what name or at how high prices offered, and are certain that a trial will demonstrate the superiority of our mixtures.

Choice Mixed This mixture has been most carefully grown from our selected stock seed and it will afford a splendid variety of blooms of improved forms and in the widest possible range of desirable colors. Many of the most pleasing and brilliant colors are included. Giant Pkt. 10c; Oz. 15c.

M. G. S. Co's. Superb Mixed We make up this mixture by combining in carefully considered proportions twenty-one separate named varieties, each the very choicest of its class. This was done after first carefully considering the desirability of color, form, and freedom of blooming in our many trials of nearly two hundred different named sorts. Nowhere else can one procure a more magnificent mixture of finely formed and beautifully colored, large flowering Sweet Peas. Giant Pkt. 10c; Oz. 15c.

Spencers Mixed A splendid mixture of Spencer varieties grown for us by the most careful methods from proven stocks. A wide range of colors is thus assured in this comparative new class of Sweet Peas of such remarkably large size and wonderfully attractive form. Giant Pkt. 10c; Oz. 30c.

M. G. S. Co's. Superb Spencers Mixed We make up this magnificent mixture by combining eighteen separate named Spencer varieties, each of which our trials have repeatedly shown to be the very best of its class. Unsurpassed as a mixture of this superb class and showing the most desirable range of colors and the finest forms. No better mixture in all the world than this. Giant Pkt. 10c; Oz. 50c.

Are you utilizing all that ground of yours?

Sweet William

(*Dianthus barbatus*) A well-known, sweet-scented, old-fashioned perennial for bedding and borders, forming fine clumps in any good garden soil and under proper conditions, lasting for several seasons. It is one of the most desirable for display in the garden. The plants are easily grown, hardy and free flowering. They produce a succession of flower clusters, thus affording splendid bloom for several weeks. The florets are handsomely colored and marked, and are borne on stiff stems in great profusion, forming dense round topped heads or clusters, often three to four inches across. The colors are exceedingly varied, ranging from white through many shades of rose, lilac, red, carmine, crimson, and maroon to nearly black, usually two shades to each plant. The petals are barbed or bearded and the leaves are lanceolate in shape, and grow opposite or conduplicate.

Hardy perennial; one and one-half feet high.

Double Mixed. Double flowers in a great variety of colors and shades..... Giant Pkt. 10c.

Single Mixed Giant Pkt. 10c.

Tagetes—(*See Marigold*)

Tropaeolum Canariense—
(*See Canary Bird Flower*)

Tropaeolum Lobbianum—
(*See Nasturtium, Trailing*)

Tropaeolum Minor—
(*See Nasturtium, Dwarf*)

Torenia A fine annual with trumpet-shaped, sky-blue flowers, each having three spots of dark indigo blue and a yellow stain in the center. Plants of bushy habit, about ten inches high. Extremely handsome when grown in pots or out of doors in a shaded location.

Verbena This well known annual of low growing decumbent habit of growth is very desirable for massing in beds on the lawn. It is suitable also for borders and window boxes.

Large clusters of showy flowers are borne in succession through a long season until frost. Each truss or cluster is about two to three inches across, and includes a dozen or more single flowers about three fourths of an inch across, tubular with five spreading lobes. The length of stem and texture of the flowers make them of value for bouquets and table decorations. There is a wide range of colors, shades and stripes usually running from pure white to deep purple.

Mammoth. Pink, purple, blue, white..... Giant Pkt. 10c.
Defiance. Scarlet, Firefly, scarlet, white eye..... Giant Pkt. 20c.
(Lucifer.) Intense brilliant, the best of all reds..... Giant Pkt. 20c.



Sweet William.

Vinca

(*Periwinkle*) These very attractive bushy plants with glossy green foliage produce in abundance handsome round or salver shaped single flowers, suitable either for culture in pots or boxes or for summer bedding and borders. Tender perennial, blooming the first season, about fifteen inches high.

Pure White. Beautiful pure white..... Giant Pkt. 10c. Rosea Albo. White with crimson eye..... Giant Pkt. 10c.
Rosea. Rose with crimson eye; flowers often two inches in diameter. A very desirable window plant. Giant Pkt. 10c.
Mixed. The above named varieties mixed.... Giant Pkt. 10c.

Viola Tricolor—(*See Pansy*).

Virginian Stock (*Cheiranthus maritimus, Malcolmia maritima*) The plants are of more branching and decidedly more open in habit than the common Stock (*Mathiola*) and are very useful for border or edging. Hardy annual; about nine inches high.
Red and white mixed. Clusters of beautiful single cruciform flowers..... Giant Pkt. 10c.

Wallflower (*Cheiranthus cheiri*) This is a favorite European garden flower. The long, fragrant terminal spikes of the Wallflower when properly grown are very conspicuous in beds and borders and are very useful in making bouquets. Tender bushy biennial or perennial that will live through the winter in a mild climate; height of plants about one and one-half feet.

Double Mixed. Deliciously fragrant, perfectly double, and combine many shades of color, the orange, purple, and chocolate predominating..... Giant Pkt. 10c.



Zinnia.

Wistaria Chinensis

One of the most beautiful and rapid growing of the hardy perennial climbers. When well established in good soil it will often grow fifteen to twenty feet during the season, and frequently blooms both in spring and fall. The flowers are very fragrant, single, pale blue, pea-shaped and are borne in long, drooping, grape-like clusters, often over a foot in length. Foliage light green, pinnate.

Giant Pkt. 20c.

Zinnia

Sometimes called Youth and Old Age. The well known bush-like plants of Zinnias produce a profusion of large, double imbricated flowers, usually about two inches across, borne on stiff stems. They are much used for bedding and are suitable for borders and for cutting.

There is much satisfaction in a bed of Zinnias with their twisted and recurved petalled flowers in many bright colors, and when nearly every other flower has been killed by frost, this plant is still in full bloom. Few flowers are more easily grown or bloom more abundantly throughout the season, and the wide range of color is not less remarkable than their unusual depth and richness.

Half hardy annual; tall growing, usually about one and one-half to two feet high.

Tall Giant Flower. Purple, pink, yellow, white, crimson, salmon and mixed..... Giant Pkt. 10c.

Dwarf Giant Flower. Purple, pink, yellow, white, crimson, salmon and mixed..... Giant Pkt. 10c.

Pickotee Mixed..... Giant Pkt. 10c.

Wild Cucumber

(*Echinocystis lobata*) This is a useful climber where a rapid and vigorous growth of vine is desired. To cover or to screen an unsightly building, there is perhaps no annual climber better adapted for the purpose. The vine has abundant foliage and is thickly covered with sprays of small white, fragrant flowers, followed by numerous prickly seed pods. Hardy annual..... Giant Pkt. 10c.

BULBS AND ROOTS FOR SPRING PLANTING

WRITE FOR SPECIAL PRICES ON ALL BULBS IF LARGER QUANTITIES ARE WANTED.

Included in this class are some of our most showy garden flowers and their culture is very easy. In the spring, after danger from frost is over, plant in a rich, loamy soil, having a sunny position and flowers the same season are assured. All bulbs and roots will be sent by mail or express, charges prepaid, when ordered at single or dozen rates. At the 100 rate they will be sent by express or freight, the purchaser paying the charges unless otherwise stated. Not less than six of any one variety supplied at dozen rates and not less than 25 at the 100 rate. Orders with money should be sent to us as early as possible and they will be filled in rotation. Bulbs subject to injury by frost will not be sent until such danger is over.

Begonia

Tuberous Rooted. The tubers which we offer are of the very best quality and with proper care will give a beautiful display early in the summer. For growing in pots or boxes in the house, plant in rich, sandy soil, give good drainage and water freely after the leaves start but do not let the soil become sour or soggy from over-watering. If it is desired to have a bed outdoors, select a shady, moist situation making the bed rich with thoroughly rotted manure and leaf mold, if obtainable. Plant as soon as danger from frost is over. After the plants start into vigorous growth keep well watered.

	Each	Doz.		Each	Doz.
Single, pink	20c.	\$2.00	Double, pink	20c.	\$2.00
Single, scarlet	20c.	2.00	Double, scarlet	20c.	2.00
Single, white	20c.	2.00	Double, white	20c.	2.00
Single, yellow	20c.	2.00	Double, yellow	20c.	2.00
Single, mixed	20c.	2.00	Double, mixed	20c.	2.00

NOTICE—We carry in season a full line of Potted Plants, for bedding out, or decoration purposes.

Our giant Zinnias are the most wonderful of Flowers.

Caladium

Esculentum. Known also as Elephant's Ear. One of the finest tropical plants which can be grown in the open air in the north. It can be made to produce three to ten leaves three to four feet long and nearly as wide, on stalks four to six feet high.

The soil best suited to Caladiums is a mixture of fibrous loam, leaf mold, peat, and well rotted cow or sheep manure in equal parts, with a sprinkling of sand added. Bulbs may be planted outdoors as soon as danger of frost is over, covering about three inches deep; or for largest growth start early indoors in pots and set out when the weather is warm and settled. But little water must be given to the roots till active growth commences, when, as the plants develop, they require an abundance. Humidity and warmth are necessary for their best development.

Mammoth. 15 to 17 inches.....	75c. each.
Large Size. 11 to 13 inches.....	50c each.
Medium Size. 7 to 9 inches.....	25c each.
Small Size. 5 to 7 inches.....	10c each.

Cannas

Select Large Flowering. They do well in all sections of the country, and stand preeminently at the head of the list, succeeding in any sunny position in any kind of soil, but responding quickly to liberal treatment.

Cannas should be planted in good, rich garden soil, mixed with half of old rotten stable manure, by the end of May, when danger from frost is past. Water sparingly for first two weeks after planting. When growing freely, water liberally. Set the plants about 18 inches apart each way, and if more than one kind is used, be careful to plant the taller growing kinds in the center and the dwarf ones along the edge. This applies to planting in beds.

PRICES.

Named varieties, as listed below except where otherwise noted. Dormant Roots—10c each, \$1.00 per doz. (by mail \$1.15 doz.)

Charles Henderson. Vermilion red, penciled with yellow in the center; very large flowers; green foliage; 3½ feet.

Mrs. Kate Gray. Rich orange scarlet, overlaid with gold; flowers large, with immense trusses, foliage bright glossy green; one of the best; 5 feet.

Pennsylvania. Intense vermilion-scarlet, overlaid with an orange sheen. Flowers measure fully 6 inches, are produced freely; foliage rich green; 5 feet.

King Humbert. In this grand Canna we have a combination of the highest type of flowers with the finest bronze foliage. Its flowers measure 6 inches in diameter, produced in gigantic trusses, a brilliant orange-scarlet with bright red markings; foliage broad and massive, of a rich coppery-bronze; 4 to 5 feet.

Mont Blanc. Large, beautiful white flowers on strong branching stalks, well above the foliage. It blooms early and continuously. Its great masses of snowy-white flowers contrast finely when planted with crimson and scarlet kinds. 3 feet.

Canna Plants. Ready about May 10. 15c each, \$1.50 per doz. Sent by express only at purchaser's expense.

Venus. One of the softest and most delicately colored varieties that has yet been introduced. The flowers are of fair size, of a soft rosy pink, with a pretty mottled border of creamy yellow. The plant always presents a clean, fresh appearance; green foliage; 3½ feet.

Robusta Perfecta. A distinct and handsome sort, makes a good screen; bearing immense leaves eleven to eighteen inches wide and three feet long, of a bright bronze-red color; the flowers are insignificant; six to seven feet high; with good cultivation grows 8 feet; used for a screen or background.

Mixed Tall Varieties. Our selection; dormant roots. 10c. each, 75c. per doz. (85c. doz. by mail)

Mixed Dwarf Varieties. Our selection; dormant roots. 10c. each, 75c. per doz. (85c. doz. by mail)

Panama, 3 ft. Green foliage. Color rich orange red with a border of golden yellow. Flowers mammoth size, enormous wide petals.

Eureka, 4 ft. Green foliage. The best white canna for all purposes. Large substantial flowers, very freely produced on strong vigorous plants.

Firebird, 3½ ft. Green foliage. A pure glistening scarlet with big broad petals of fine substance.

The President, 4 ft. Green foliage. Without doubt this canna is superior to any red variety in both quality and quantity of blooms. Color rich glowing scarlet, immense firm flowered, produced on strong erect stocks, well above the rich green foliage; foliage free from disease.

King Humbert, 4 ft. Bronze foliage. One of the grandest cannas ever offered. Mammoth leaves are purplish brown over bronze. Plants crowned with immense heads or orchid-like orange scarlet, a combination of leaf and blossom, incomparably beautiful.

Dahlia

The "Decorative" types are characterized by gracefully formed flowers of large size and broad petals being intermediate in form between the compact "Show" sorts which are nearly round and the "Cactus" varieties which have loosely formed blossoms with long twisted petals.

The roots are tender and easily injured by frost. They should be set out three feet apart, after all danger of frost is over. The best blooms are sometimes obtained if planting is deferred but only moderately enriched with thoroughly rotted barnyard manure. A stiff clay should be avoided. A sunny situation is desirable as well as plenty of space and air. Place the roots horizontally, covering two to three inches deep. Give thorough cultivation and during dry weather water well once a week. Larger blossoms are usually obtained if most of the side shoots are removed. Dahlias usually do not require much fertilizer and fresh barnyard manure especially should not be used. The plants should be supported by tying to stakes. The roots should be placed during winter in a cool cellar but not allowed to freeze. All named varieties 20c each; \$2.25 per doz.

Blue Oban. One of the choicest decorative varieties, very large; nearest to a blue dahlia.

Cuban Giant (Giant) Dark, glowing crimson, shaded maroon; flowers of immense size; decorative.

Gabriel. (Cactus) Striking shades of scarlet and cinnamon; long twisted, incurved petals.

Jack Rose. Large brilliant crimson. One of the best decorative dahlias for garden or cutting.

Jeanne Charmet. Remarkably free flowering and vigorous decorative variety. Rose shaded and edged with carmine. Flowers of largest size.

Lyndhurst. A dazzling bright scarlet; large full-centered decorative sort. Excellent for cutting.

Maid of Kent. Cardinal red tipped with white, variable.

Mrs. Roosevelt (Giant) Very double; very large, often over six inches across; color, a delicate shade of soft pink. Decorative; excellent for cutting.

Twentieth Century. (Single) Intense rosy crimson, white tips and white disc around yellow center.

White Swan (Show) Snow white; unusually full and round with long stems.

Yellow Duke (Giant) Pure canary-yellow flowers of very large size. A grand decorative variety.

	Each	Doz.
Dahlia, Double, pink.....	15c.	\$1.50
Dahlia, Double, scarlet.....	15c.	1.50
Dahlia, Double, white.....	15c.	1.50
Dahlia, Double, yellow.....	15c.	1.50
Dahlia, Double, mixed.....	15c.	1.50

Dielytra (*Bleeding Heart, Dicentra Spectabilis*) A hardy perennial plant, with finely cut foliage, blooming in the spring. Flowers graceful, heart-shaped, pink and white; borne in long racemes. Each, 15c.; doz., \$1.50

GLADIOLUS

WRITE FOR SPECIAL PRICES ON ALL BULBS IF LARGER QUANTITIES ARE WANTED.

The Gladiolus is one of the most decorative plants in the garden, and as a cut flower lends itself readily to any arrangement. If the spikes are cut when the lowest flower is in bloom, the others will open in succession and remain fresh a week or ten days. No flower has gained more rapidly in public favor than the Gladiolus; this could not well be otherwise, for in addition to the great intrinsic merit of the flower, it is hardy and blooms the first season from bulbs.

Gladioli will thrive in almost any good soil except a stiff clay. They require full sunlight and are liable to injury only from rank manure. Plant bulbs six to nine inches apart, the large ones four inches and the small ones two inches deep. Make an early planting of the smallest bulbs first as soon as the ground is sufficiently dry and warm. Continue to plant at intervals of two weeks during the spring and early summer; in this way a succession of bloom may be had from midsummer until frost. A free use of water during the season of active growth and particularly as the buds begin to show color will be beneficial in producing fine blossoms. In the autumn, before freezing, they should be dug up and the tops allowed to dry down, after which the dry tops, earth, and old bulbs can be removed. Store in a cool, dry place, secure from frost until spring.

GIANT FLOWERED VARIETIES

A class of hybrids between *Gladiolus Gandevensis* and *Gladiolus Saundersoni* which for varied and exquisite beauty has never been equaled. The flowers are of very large size, frequently eight inches across, borne on spikes four to five feet high, the upper two feet covered with flowers. Named *Gladiolus* 10c each; 90c per doz.; \$8.00 per 100.

America. The finest of the light colored sorts. Very light pink, exquisitely tinted with lavender. Unsurpassed in freedom of bloom and size of flower spike. Magnificent variety.

Baron Hulot. Flowers dark velvety purple and of the Lemoine type. One of the very best so-called blues.

Giant flowered, fine mixed.

Augusta. Pure white, with blue anthers. Strong, straight spikes.

Brenchleyensis. Rich, brilliant, dark scarlet. Much used on account of its brilliant color, and distinct marking.

Kunderdi Glory. A very striking variety with fluted or ruffled petals. Flowers very large, delicate cream pink with a crimson stripe on each lower petal; fine spike.

Mrs. Francis King. A most effective variety for decoration. Spikes extra long; flowers brilliant pink, blazed with vermillion.

Panama. A new seedling of *America* which resembles the parent variety in every way except that it is a much deeper pink. A grand variety. Spike very long with flowers large and well arranged.

Princeps. An especially fine variety with immense wide-open amaryllis-like flowers, of a rich dazzling scarlet, marked with white on the lower portion, which serves to intensify the brilliancy of the scarlet.



Gladiolus

GLADIOLUS MIXTURES

These choice assortments must not be confounded with the common mixed sorts. We recommend this stock with perfect confidence, as it is composed only of choice varieties and purchasers can depend upon having a magnificent variety of colors. *Single and dozen prices include postage. The 100 rate is by express at purchaser's expense.*

	Each	Doz.	Per 100		Each	Doz.	Per 100
Shades of Pink and Rose.....	5c.	40c.	\$2.00	Extra Fine American Hybrids Mixed.....	5c.	50c.	\$8.00
Shades of Scarlet and Red.....	4c.	40c.	1.50	Groff's Hybrid Seedlings. A great variety			
Shades of Orange and Yellow.....	6c.	60c.	4.00	of shades and markings.....	5c.	40c.	2.00
White and Light Varieties.....	4c.	40c.	2.75	Lemoine's Butterfly Varieties Mixed.			
Striped and Variegated Mixed.....	5c.	50c.	3.00	Throats very distinctly marked.....	3c.	25c.	1.75

Gladiolus should be planted at intervals to insure a succession of bloom.

LILIES

No flower is more expressive of the idea of queenly beauty and faultless purity than the Lily. Nearly every variety we offer will, with a little care, endure the severity of our winters, and some are among the most hardy of our garden flowers. Most lilies last a long time after cutting and are admirably suited for decorative purposes.

Bulbs should be planted as soon as the frost is out of the ground; the earlier the better. Select a well-drained spot, dig the soil deep and make it fine, enriching it abundantly with well-rotted cow manure, adding a liberal mixture of sand. Set the bulbs from three to five inches deep, according to size. During the winter it is advisable to cover the surface of the bed with a thin layer of manure which will afford a slight protection to the bulbs and also materially enrich the soil. In spring the manure may be removed or dug in between the rows. Care should be taken that they have proper drainage, no water being allowed to stand around the roots. Once firmly established, they should not be disturbed oftener than once in five years.

To produce extra fine specimens, plant bulbs in pots early in spring and grow them in the house or under glass.

Auratum (*Gold-Banded Lily of Japan*) This favorite garden lily is one of the grandest plants in cultivation. Its immense ivory-white flowers are thickly studded with yellow and crimson spots, while in the center of each petal is a golden band, fading at its edges into the white. Such choice bulbs as we offer, if well cared for, will give from five to ten magnificent flowers the first year and under good cultivation will, after becoming well established, give many more. Height outdoors in the open usually three to five feet. 35c. each; \$3.50 per doz.

Longiflorum (*Giganteum*) Beautiful, pure white, trumpet-shaped flowers, similar in form to *Lilium Harrisii*, the well-known Bermuda Easter Lily, and preferred by some to that variety. It does not come into bloom as early, but the flowers are of better substance. Extensively used by florists for cut flowers. When grown in the open ground it blooms in June or July. Height outdoors in the open, usually two or three feet. 40c. each; \$4.00 per doz.

Speciosum Album Pure white flowers with a greenish band through the center of each petal; of great substance, very fragrant. One of the best for general culture. Height of plants in the open, usually two to four feet. 35c each; \$3.50 per doz.

Speciosum Rubrum (*Roseum*) The Speciosum or *Lancifolium* are among the most charming and brilliantly beautiful of the Japanese Lilies. The six broad, white or pink petals are



Lilium Auratum.

thickly dotted with rose or crimson spots. Especially thrifty and hardy. One of the best for garden culture. Height, two to four feet. 35c. each; \$3.50 per doz.

Tigrinum Splendens (*Improved Single Tiger Lily*) This is of most striking appearance with very large, nodding flowers of excellent form; color, orange-salmon with dark spots. The plants are of more robust habit, with longer flower spikes than the older type and are highly recommended. Height, outdoors in the open, usually three to four feet, sometimes taller. 20c. each; \$2.00 per doz.

Tigrinum Flore Pleno (*Double Tiger Lily*) This magnificent lily is of stately habit, bearing immense clusters of very large, double flowers on tall, strong stems; color, bright orange-red spotted with black. Height outdoors in the open, usually three to five feet. 20c. each; \$2.00 per doz.

Madeira Vine Sometimes called Mignonette or Mexican Potato Vine. This tuberous rooted climber of dense, branching growth has thick, heart-shaped, glossy green leaves and delightfully fragrant, small, feathery, white blossoms produced in long, hanging racemes. It is of rapid growth, and is fine for porches and covering arbors in a single season. Perennial, but take up roots in fall, as the plant will not endure frost. Each 5c; doz. 40c.

Tritoma PFITZERI. An improved variety of the plant sometimes called Red Hot Poker. The handsome flowers are produced in large spikes of rich orange-red tinted flower tubes. Plant two feet apart. Tritomas are hardy when well covered in winter. Each 25c.; doz. \$2.50.

Tuberose The flowers of this well-known, tuberous rooted plant are waxy-white, double and exceedingly fragrant. They are very useful in bouquets and house decoration.

If early flowers are wanted, fill five-inch pots half full of well-rotted cow manure and the remainder with good, rich, sandy soil. Plant the bulbs in this in March or April, water moderately and hasten growth by putting in a warm, light place. When weather has become warm, plunge the pots in the earth out of doors. They will usually flower before cold weather; if they do not, the pots can be brought in and bulbs will bloom in the house.

Dwarf Excelsior Pearl Mammoth bulbs 6 inch and up..... each 10c. Size number one, 4 to 6 inches..... each 8c. Size number two, 3 to 4 inches..... each 5c.

If you want larger quantities of bulbs than here quoted, write for our low prices.

Fruit Trees, Small Fruits, and Grape Vines

Select thrifty young trees in preference to old or very large ones; the roots are more tender and fibrous and they bear transplanting better and are more apt to live; they can also be more easily trimmed and shaped to any desired form, and in the course of a few years will usually outstrip the older ones in growth. If not prepared to plant when your stock arrives, "heel in" by digging a trench deep enough to admit all the roots, and setting the trees therein, carefully pack the earth about the roots.

Apples

3 years old, 5 to 7 feet high, \$1.25 each; \$12.00 Dz.
SUMMER VARIETIES

EARLY HARVEST. Pale yellow, fine; August.
RED ASTRACHAN. Large, crimson, juicy, rich sub-acid.
SUMMER RAMBO. Green striped red, sub-acid.
YELLOW TRANSPARENT. Pale yellow, good quality.

AUTUMN VARIETIES

DELICIOUS. Large, dark red, juicy, aromatic.
MAIDEN'S BLUSH. Large, beautiful, blush cheek.
RAMBO. Yellow, streaked with red; October to December.

WINTER VARIETIES

BANANA. Large, golden yellow, shaded crimson.
BALDWIN. Large, dark red, productive.
GANO. Deep red, fine quality; good shipper.
GRIMÈS GOLDEN. Medium to large, skin golden yellow, flesh crisp, tender, juicy, long keeper.
JONATHAN. Medium, red and yellow, flesh tender.
NORTHERN SPY. Large, striped red; good keeper.
ROME BEAUTY. Large, yellow shaded red, tender.
WEALTHY. Large, round, skin smooth, splashed dark red; flesh white, tender, juicy, sub-acid.
WINE SAP. Medium, deep red, rich, sub-acid.

Cherries

HEART AND BIGARREAU (Sweet)

5 to 7 feet first-class, \$1.50 each; \$15.00 Dz.
ALLEN. Large, nearly black, very productive.

BLACK TARTARIAN. Very large, purplish black, juicy, rich, excellent, productive; last of June.

GOVERNOR WOOD. Large, light red, juicy, rich, delicious. Tree healthy and productive; June.

NAPOLEON. Large, pale yellow, firm, juicy.

ROCKPORT BIGARREAU. Large, yellow, juicy.

WINDSOR. Large, liver colored, fine quality.

YELLOW SPANISH. Large, pale yellow with light red cheek; late June.

DUKE AND MORELLO (Sour)

4 to 6 feet first-class, \$1.50 each; \$15.00 Dz.

DYEHOUSE. A very early and sure bearer; ripens a week before Early Richmond; fine quality; June.

EARLY RICHMOND. Medium, dark red, fine.

ENGLISH MORELLO. Dark red, rich acid, juicy.

MAY DUKE. Large, red, and excellent variety.

MONTMORENCY. Large, red, fine flavor; finest.

OLIVET. Large, red, tender, rich; sub-acid flavor.

REINE HORTENSE. Large, bright red.

Crab Apples

5 to 7 feet, \$1.25 each; \$12.00 Dz.

HEWES CRAB FOR CIDER. Best cider crab grown.
TRANSCENDANT. Skin yellow, striped with red.

Mulberries

5 to 6 feet, \$1.00 each; \$10.00 Dz.

DOWNING'S EVERBEARING. One of the most prolific varieties, bearing an abundance of large, black sub-acid fruits, hardy.

NEW AMERICAN. An everbearing variety; large fruit of finest flavor, hardy.

Peaches

4 to 6 feet, 60c each; \$6.00 Dz.

CHAMPION. Creamy white with red cheeks, freestone, excellent quality; early in August.

CRAWFORD'S EARLY. Large, yellow, of good quality, freestone; early in September.

CRAWFORD'S LATE. Large, yellow with red cheeks, freestone; last of September.

ELBERTA. Large, yellow with red cheek, flesh yellow; firm, juicy, very prolific; September.

HEATH CLING. Large, flesh white, juicy, and melting; October.

OLD MIXON CLING. Large, yellow with red cheek; September.

OLD MIXON FREE. Large, yellow with red cheek; September.

SALWAY. Large, creamy yellow with crimson cheek; October.

Pears

STANDARD AND DWARF

6 to 7 feet, first-class, \$1.25 each; \$12.00 Dz.

BARTLETT. Large, clear yellow, juicy; August.

FLEMISH BEAUTY. Large, juicy, rich and fine; September to October.

KIEFFER'S HYBRID. Large, and good quality.

SECKEL. Small, yellowish brown.

SHELDON. Large, round russet-red; October.

Plums

STANDARD

ON PLUM STOCKS, 5 to 7 feet, \$1.50 each; \$15.00 Dz.

ABUNDANCE. Large, yellow with heavy bloom.

BURBANK. Large variety; color red; excellent.

DAMSON. Small, oval fruit, purple, hardy.

GERMAN PRUNE. Medium, oval fruit, purple.

GREEN GAGE. Small, delicious, very prolific.

LOMBARD. Medium, red, juicy, productive.

PURPLE EGG. Rich purple, fine flavor, best market variety.

RED JUNE. Large, red, fine quality; strong, vigorous grower.

Quinces

4 to 5 feet, \$1.50 each; \$15.00 Dz.

MEECH'S PROLIFIC. Fruit bright yellow; flesh very fragrant and tender; October.

ORANGE. Large bright golden yellow, fine quality.

We can furnish all varieties of fruit trees, etc., usually catalogued, but our list comprises the most desirable sorts.

Black or Purple Grapes

CONCORD. Large, black grape, hardy and productive; juicy and sweet.

IVES' SEEDLING. Dark purple. Sweet.

MOORE'S EARLY. Bunch medium; berry large; round, with a heavy blue bloom; vine hardy and moderately prolific. Its large size and earliness render it desirable for an early crop.

WORDEN. Larger than Concord in bunch and berry; exceptionally sweet, sprightly.

Red Grapes

BRIGHTON. Bunch large, berries large, red, round, excellent flavor.

CATAWBA. Berries large, round; when ripe a dark copper color; sweet, rich.

DELAWARE. Small, light red, thin skin; very juicy; sweet, sprightly.

White or Yellow Grapes

MOORE'S DIAMOND. White good sized berries, juicy and sweet.

NIAGARA. Bunches very large and compact; berries large, light greenish white, slightly ambered in the sun.

Blackberries

90c per dozen; \$5.00 per 100

EARLY HARVEST. Dwarf grower; fruit medium size of fine quality. The first to ripen.

ELDORADO. Large fruit, borne in large clusters and ripen well together, fine quality, good keeper.

RATHBUN. A strong erect grower with strong stem, branching freely. Fruit very large, sweet and luscious, without hard core.

SNYDER. Medium size sweet and juicy, extremely hardy and very productive.

Currants

Best Sorts—strong two-year-old plants.

35c. each; \$3.00 per doz.

CHERRY. Deep red.

FAY'S PROLIFIC. Color rich red; the leading variety for home use.

BLACK PROLIFIC. The favorite sort for preserving.

PERFECTION. A new red variety, combining size, color, high quality, and productiveness.

WHITE GRAPE. Best white.

Fruit Trees, Small Fruits, and Grape Vines—Continued

SELECT GRAPES They do well trained to the side of any building or along the garden fences, occupying but little room and furnishing an abundance of the healthiest of fruit. Make the soil mellow and plant the vines from six to eight feet apart.

ALL TWO-YEAR OLD SELECTED STOCK

35c each; \$3.50 per doz.

Dewberry

LUCRETIA. One of the low-growing, trailing blackberries. It has proven highly satisfactory wherever tried, and many say it is the best of all the blackberry family. 90c per doz; \$5.00 per 100.

Gooseberries

35c. each; \$3.00 per doz.

DOWNING. Large, pale green, and of splendid quality for both cooking and table use.

HOUGHTON'S. Small to medium; roundish, oval, pale red, sweet, tender.

INDUSTRY. Berries of largest size, excellent flavor, pleasant and rich, dark red color when fully ripe. Strong upright grower, an immense cropper.

Raspberries

90c. per doz; \$5.50 per 100 except where noted.

COLUMBIAN. The fruits are cone shaped of dark red, almost purplish color, rich sprightly flavor.

CUMBERLAND. The largest black cap; a healthy, vigorous grower; very productive.

CUTHBERT. Large, firm, deep rich crimson, of excellent quality, tall, strong, and vigorous.

KANSAS. The hardest black cap; strong, vigorous.

ST. REGIS. It is wonderfully prolific; the first or main crop being far greater than that of any other red variety known. It fruits on the old canes in generous quantities until late in August. By that date, berries begin to ripen upon the young canes, which continue to produce berries in increasing numbers until severe frost. The berries are a bright crimson, of large size and surpassing quality—rich, sugary with full raspberry flavor. They are of exceedingly meaty, firm texture and keep in good condition longer after being gathered, than any other red raspberry.....90c per doz; \$5.50 per 100.

Strawberries

The blossoms of those marked with (P) are destitute of stamens and are termed pistillate, and unless a row of perfect flowering variety is planted at intervals not exceeding about a rod, they will produce imperfect fruit and but little of it; but when properly fertilized as a rule they are more prolific than those with perfect flowers.

Dip the plants in water as soon as received, and bury the roots in moist, shady ground till you are ready to set them out.....40c. per doz; \$1.25 per 100.

BRANDYWINE. A fine, large, late, handsome, productive berry of excellent quality; regular conical form; dark, glossy red.

BUBACH'S No. 5. (P.) Large and uniform size, fine form and color; the leading market sort.

CARDINAL. (P.) This Strawberry surpasses all in size of plant and abundance of runners; fruit stalks tall and robust, bearing fruit well off the ground; color, beautiful cardinal red.

GANDY. One of the best late varieties. Berries large, of fine form.

GLEN MARY. Large, to very large, sometimes flattened; sweet, rich.

HAVERLAND. (P.) Very productive of medium to large, conical berries that are smooth, regular, mildly sub-acid.

SENATOR DUNLAP. Exceedingly vigorous. Fruit large, regular, and attractive in form, deep red to the center. Firm in substance.

WARFIELD. (P.) Great beauty, firmness, earliness, productiveness, and vigor make this berry most popular.

WM. BELT. Berries very large, conical, bright red, of good flavor. The plant is strong, healthy, very fruitful. Season medium to late.

SUPERB. The Ever-bearing Strawberry—is a truly wonderful fall-bearing variety, and what makes it unusually profitable is the fact that it also produces a heavy yield of choice fruit in the early summer, along with the standard varieties. They continue to give large yields of choice berries throughout August, September, and in October up to the time the ground is slightly frozen. Plants of this variety which are set in the spring should have the blossoms removed until the first of July.

50c. per doz; \$2.50 per 100.

Everblooming Hybrid-Tea Roses

Our selection embraces the most popular of the Hybrid-Tea type, which have been found most satisfactory for outdoor planting.

75c each \$7.50 per doz.

THE NEWER VARIETIES.

Pot Plants (4 inch) Ready May 10th.

BRITISH QUEEN. Surpasses in beauty and elegance of form all other white varieties. The freedom with which it blooms is remarkable. The type of flower is between White Maman Cochet and Frau Karl Druschki, with Tea Rose form and refinement.

CHATEAU DES CLOS VOUGEAT. The richest colored of all Roses, shading from deepest velvety maroon-red to blackish-crimson. Will become one of the most popular of garden Roses.

DOUBLE PINK KILLARNEY. Will supersede the Killarney now grown, as it possesses from ten to twelve more petals than its parent.

DOUBLE WHITE KILLARNEY. A pure white sport from White Killarney; has a much larger bud, double the size of the ordinary White Killarney.

EDWARD MAWLEY. Is the finest of all dark crimson Roses. A true perpetual flowering Hybrid Tea.

FLORENCE FORRESTER. Clear snow-white with a lemon tinge, as the flowers age they become a pure white, the blooms are even larger than Paul Neyron. The grandest of all whites for bedding.

Gruss An Tiplitz. Finest brilliant red, everblooming, free grower, fragrant.

HADLEY. In color it is a deep velvety-crimson, retaining its brilliancy at all times; very fragrant; flowers are borne on long, stiff stems.

HELEN TAFT. A rich cerise-pink. Very large, free bloomer. Growth very strong.

MABEL DREW. The color is deep cream on the first opening, passing to intense canary-yellow in the center as the bloom develops.

MELODY. The blooms are of good size; the color is an intense, pure, deep saffron-yellow, with primrose edges, a delightful color harmony.

MEVROUW DORA VAN TETS. This is another most valuable garden Rose. The color is a deep glowing crimson.

MILDRED GRANT. Ivory-white, with an occasional flush of pale peach. High pointed center, with unusually large and massive petals, opening to perfectly formed flowers of enormous size and substance.

MRS. ANDREW CARNEGIE. Handsome shape and delicious fragrance. Color pale lemon-yellow at base of the petals shading to pure white.

MRS. CORNWALLIS WEST. A magnificent Rose of huge size. The purity of the transparent delicate pink—which is between a shell and rose-pink—on the purest white gives it an attraction that is difficult to convey.

MRS. CHARLES RUSSELL. A strong growing, free flowering Rose. The bud is fully as large as American Beauty, but longer and pointed. The color is bright rose pink, deeper toward the centre.

OPHELIA. Very large flower of fine form and habit; salmon flesh shaded pink; the flowers are borne freely on stiff stems.

SUNBURST. Long pointed buds; golden orange flowers; very free bloomer and a strong grower.

Use plenty of fertilizers.

They are big crop makers.

Roses—Continued

All roses on this page strong 2 years old.
75c each \$7.50 per doz.

Hybrid Tea Roses

STANDARD VARIETIES

AMERICAN BEAUTY. Extra large, full and fragrant. The color is a fine deep pink shaded toward the center a carmine crimson. Pot Plants.

CARDINAL. A delightfully fragrant red rose of a strong robust habit a desirable bedder. Pot Plants.

ETOILE de LYON. Deep golden yellow; very large and full buds; fine for outdoor summer blooming. Pot Plants.

GRUSS an TEPLITZ. Unquestionably the finest brilliant red, hardy, ever-blooming garden rose. The flowers are very showy and handsome. It blooms constantly and continues covered with flowers the whole season. Dormant and Pot Plants.

HERMOSA. (China) A popular bedding rose. It is a bright pink color, free-flowering, and perfectly hardy. Dormant and Pot Plants.

JONKHEER MOCK. One of the richest roses in cultivation. The flower is perfect, being a grand shade of deep pink, while the outer petals are silvery rose. A free bloomer. Dormant and Pot.

KAISERIN AUGUSTA VICTORIA. Soft pearly-white, tinted with just enough lemon in the center to relieve the white; remarkably fragrant, beautifully formed flowers on long, graceful stems. Dormant and Pot Plants.

KILLARNEY. In shape nothing can approach this beautiful rose, its long perfectly shaped bud, which on the outside is of a delicate pink, unfolds a flower with a deeper pink on the inside. Dormant and Pot Plants.

LA FRANCE. Satiny rose, with reflexed petals, which are of a darker pink on the reverse side. Dormant and Pot Plants.

LADY ASHTOWN. Delicate rose with a trace of yellow at the petal base. The outer flower leaves expand, while the center petals remain in exquisite bud form. Pot Plants.

LADY HILLINGDON. (Tea) Deep coppery yellow and an attractive long bud. It is very free in growth and a continuous bloomer. Dormant and Pot Plants.

LYON ROSE. Color, shrimp pink at edges of petals; center of flower intense coral red, shaded chrome yellow; free grower and abundant bloomer. Dormant and Pot Plants.

MAMAN COCHET, PINK. (Tea) Is grown perhaps more than any other on account of its many good qualities. The individual large flowers are often on stems 2 feet long which makes it grand as a cut flower. The shade of color is a "Bridesmaid Pink." Dormant and Pot Plants.

MAMAN COCHET, WHITE. The exact duplicate of the Pink Cochet except in color, which is white, occasionally tinted pink. Dormant and Pot Plants.

MRS. AARON WARD. As a bud it is a deep Indian yellow, as it opens it adopts a broad margin of light yellow on the inner edge, when fully opened it is light yellow throughout. Very free bloomer. Dormant and Pot Plants.

MY MARYLAND. Perfect form and exquisite fragrance. Salmon pink shade, which becomes lighter as the flower opens. It is an elegant grower, and sure to please. Pot Plants.

RHEA REID. Flower large and double; free flowering and exquisitely fragrant; rich, dark, velvety red. Fine bedding rose. Pot Plants.

RICHMOND. A beautiful variety, a rich shade of crimson; should be in every garden. Dormant and Pot Plants.

WHITE KILLARNEY. A pure white sport from Killarney, with which it is identical. It is perfectly hardy with light protection. A strong, robust grower, flowering very freely throughout the season. Dormant and Pot Plants.

WM. R. SMITH. The flowers are large and double. The petals softly curled, colored cream with flesh tint, buffy-yellow base and the center pink; fine bedding variety. Pot Plants.

Moss Rose

CRESTED MOSS. Rose color. Plants.

Hardy Hybrid Perpetual Roses

CAPTAIN CHRISTY. Delicate flesh pink, very free.

FRAU KARL DRUSCHKI. An exquisite flower of the purest white.

GENERAL JACQUEMINOT. The old favorite; velvety crimson.

GEORGE AHRENDS. This is a clear pink variety of the Druschki type. It is frequently referred to as the pink Druschki Rose. Pot Plants.

JOHN HOPPER. Brilliant crimson, large flowers remarkable for their fragrance. Pot Plants only.

MABEL MORRISON. An attractive rose with pure white, perfectly formed flowers. Pot Plants only.

MME. PLANTIER. Pure white, large, and double; free bloomer, fine for cemetery planting.

MAGNA CHARTA. Deep pink, large sweet scented and of fine form, one of the hardiest.

MARSHALL P. WILDER. A grand rose of large full flowers of a bright carmine red. Pot Plants only.

MRS. JOHN LAING. Large beautiful pink blooms, borne on long sturdy stems.

PAUL NEYRON. An immense rose of a deep rose color.

PRINCE C. DE ROHAN. (The Black Rose) Deep velvety crimson passing to intense maroon. Pot Plants only.

ULRICH BRUNNER. Cherry crimson, large fine form, strong grower and hardy.

Polyantha, or Baby Rambler Roses

BABY TAUSENDSCHEIN. An exact counterpart of the grand climber, "Tausendschön," except in habit of growth.

CECILE BRUNNER. The delicate buds are of perfect form and color, which at first is rose pink, shading to a deep salmon pink, and showing a rich orange center, toning to a pale flesh color when fully opened.

CLOTHILDE SOUPERT. A grand bedding rose pearly white shading to a pure rose pink.

ERNA TESCHENDORFF. Bright red, being superior to the Crimson Baby Rambler.

ORLEANS. Bright red and pink, center slightly shaded white.

Hardy Climbing Roses

AMERICAN PILLAR. The enormous flowers sometimes measuring 3 inches across, are borne in large clusters and are produced with the greatest freedom. Color is a delightful shade of pink.

CRIMSON RAMBLER. The trusses of bright crimson flowers are freely produced. It is one of the easiest Roses to grow for hedges, pillars, arches, pergolas, etc.

DOROTHY PERKINS. One of the best. The flowers are borne in clusters and are very double. The color is a most beautiful shell pink and holds a long time without fading.

FLOWER OF FAIRFIELD. A sport from Crimson Rambler, with same climbing habit, hardiness and immense trusses of crimson flowers.

PHILADELPHIA RAMBLER. Identical with the Crimson Rambler except the color is deeper and more lasting, the flowers are perfectly double to the center and come into flower about 10 days after the Crimson Rambler.

LADY GAY. A delicate cherry pink, changing to a soft white. Rich glossy foliage.

TAUSENDSCHEIN. The flowers appear in large clusters from the beginning of June till the end of July. A beautiful soft pink, same color as Clothilde Soupert, later on changes into rose carmine.

GARDENIA. (Wichuriana) Buds bright yellow, opening double flowers of a cream color. Suitable for climbing over walls, arbors, stumps of trees, and for trailing over rocks or rough ground.

MICHIGAN CLIMBER. Single flowers nearly two inches in diameter; color, bright rich Pink.

Climbing Vines

AMPELOPSIS VEITCHII. (Japan Creeper or Boston Ivy) The leaves are small on young plants, which at first are an olive green color, changing to red in the autumn; as the plant acquires age the leaves increase in size. The best climbing plant for covering brick or stone walls.

AMPELOPSIS ROBUSTA. A strong vigorous grower. A quicker grower than Veitchii.

AMPELOPSIS QUINQUEFOLIA. (Virginia Creeper) For covering walls, verandas, and trunks of trees.

Above. 50c. each.

ARISTOLOCHIA SIPHO. (Dutchman's Pipe) Hardy vine of rapid growth, with very large heart-shaped leaves.

75c. each.

BIGNONIA RADICANS. (Trumpet Vine) Flowers trumpet-shaped, bright scarlet.

50c. each.

CELASTRUS SCANDENS. (Climbing Bitter Sweet) Yellow flowers, followed in the autumn with orange fruit.

50c. each.

Clematis

DUCHESS OF EDINBURGH. A free-flowering double white.

GIPSY QUEEN. One of the finest of the dark purple.

HENRY II. Fine large, creamy white flowers.

JACKMANII. Intense violet purple.

MISS BATEMAN. White, with chocolate-red anthers.

SEIBOLDI. Silvery lavender; a most beautiful shade.

VILLE de LYON. Magnificent brilliant crimson.

The above named Clematis, 75c. each.

COCCINEA. Bell-shaped flowers, bright coral-red; small flowering.....75c each.

PANICULATA. (Japanese Clematis) Pure white, very fragrant, borne in large clusters; small flowering..40c each.

Hardy Perennial Plants

The steadily increasing demand for hardy plants has been little short of marvelous. We are in a position to supply all varieties in any quantity. If large quantities are wanted, write for special prices. All perennials, 25c. each; \$2.50 per doz. (except where noted).

ACHILLEA. (Sneezewort) The Pearl. Flowers of the purest white. 2 feet high.

ANCHUSA ITALICA. (Dropmore Variety) Remarkable for its free and continual flowering all summer and the beautiful gentian-blue of its flowers; grows about five feet high.

ANTHEMIS TINCTORIA. The hardy Marguerites are summer-flowering perennials, growing about 15 inches. Large golden yellow flowers.

ANTIRRHINUM. (Snap Dragon) Assorted colors.

ANEMONE JAPONICA. (Wind Flowers) They grow 2 to 3 feet and are in bloom from August till mid-November, furnishing abundant cut flowers and a brilliant display. Queen Charlotte. Very large semi-double flowers of La France-pink, a color that is rare among hardy plants. Whirlwind. Large semi-double white flowers.

AKILEGIA. (Columbine) The distinct, clear-cut foliage and delicate arrangement of colors in the flowers of Columbine, make it one of the showiest and most desirable of the hardy garden plants.

Coerulea. A beautiful Rocky Mountain species with broad flowers, often 3 inches in diameter; the outer sepals deep lilac or blue, petals white, the deep blue spur, tipped green.

Coerulea Hybrids. Beautiful variations from the standard type.

Rose Queen. Pleasing shade of delicate pink, long spurred flowers.

Chrysanthemum. Golden yellow flowers with long spurs; one of the most distinct of the family.

Nivea Grandiflora. Pure white.

ASTERS. (Michaelmas Daisies, or Starworts) These are among the showiest of our late-flowering hardy plants, giving a wealth of bloom at a season when most other hardy flowers are past, and for the best effect should be planted in masses of one color. The hardy sorts are entirely distinct from Annual Asters, being smaller in bloom, but produced in greater quantity.

Beauty of Colwall. A grand semi-double flowering type of a beautiful lavender shade; height, about 4 feet; September.

Perry's Pink. A pleasing bright pink; one of the best in this color; 3 feet; September.

CARDINAL CLIMBER. A graceful annual climber. The flowers are a fiery cardinal red, flowering from mid-summer until frost. Plant in good, rich soil when all danger of frost is overPlants, 50c. each.

COBaea SCANDENS. (Cathedral Bells.) Purplish lilac flowers. Rapid grower.....50c. each.

Honeysuckles

50c. each.

AUREA RETICULATA. Foliage variegated yellow and green with yellowish white fragrant flowers.

MONTHLY FRAGRANT OR DUTCH. Blooms all summer.

COMMON WOODBINE. A strong, rapid grower; flowers very showy; red outside, buff within.

HALLEANA. Nearly evergreen; flowers pure white.

SCARLET TRUMPET. Scarlet inodorous flowers.

HECKROTTI. (New Sweet Scented) Flowers, dark rich red and creamy yellow in color. Blooms continually the whole season.

IVY, ENGLISH. Beautiful evergreen vine. For hanging baskets, window-boxes, and vases.....40c. each.

KUDZU VINE. (Or Jack-and-the-Bean-Stalk) A rapid growing vine.....40c. each.

MOON FLOWER PLANTS......25c. each.

VITIS HETEROPHYLLA VARIEGATA. Dark green foliage, variegated with white and pink. Useful for trailing over rocks or for a low trellis.....30c. to \$1.00 each.

WISTARIA, CHINESE. Delicate violet blue blossoms.

50c. each.

WISTARIA, CHINESE WHITE. Pure white flowers.

50c. each.

Grandiflorus. Quite distinct; the flowers, which are bluish-violet, measure often 2 inches in diameter; 2 feet; October and November.

Mme. Soyneuse. Pale lilac; very free; 15 inches.

Novae Angliae. Bright violet-purple; 4 feet.

Mrs. F. W. Raynor. Large, rich crimson-purple; 4 feet.

Rosea. Bright purplish-mauve; 4 feet.

White Queen. Fine pure white; 4 feet.

BEGONIA, HARDY. Exceedingly useful plants for the garden, good for shady places. Lustrous bronze green foliage with small pink flowers.

BOCCONIA. (Plume Poppy) Cordata. A splendid plant, growing sometimes 6 feet high, bearing panicles of creamy-white flowers in July and August; makes a grand effect as a centre in a hardy bed or a border background.

BOLTONIA. (False Chamomile) Tall-growing showy plants, with flowers resembling hardy Asters; appearing in September.

Asteroides. Pure white; 5 to 6 feet.

Latisquama. Pink, tinted lavender; 6 feet.

CAMPANULAS. (Bell Flower) Bell-shaped flowers, well-known and most easily grown; equally useful for flower border, shrubbery, or wild garden.

Carpatica. (Carpathian Hare Bell) Ideal for border or rockery planting, being about 8 inches high; flowers from June till frost. Blue and white, each separate.

Calycanthema. (Cup and Saucer) White, pink, or blue.

Medium. (Canterbury Bell) Single white, single blue, and single pink.

CHRYSANTHEMUMS, HARDY. These varieties are very popular for out-door bedding. They will produce an abundance of bloom until killed by frost.

Old-Fashioned, Large Flowering.—Autumn Glow. Rose-crimson. Indian. Red. Golden Queen. Yellow. Old Homestead. Pink. Victory. White.

Pompons—Baby, a miniature lemon-yellow. Boston. Golden-bronze. Cerise Queen. Cerise pink. Gold Nugget, Golden-yellow, inner petals tinged red. (Golden

Pheasant. Rich golden-yellow. Julia Lagravere. Rica garnet. Model of Perfection. White. President. Purplish-crimson. Rhoda. Apple-blossom pink. St. Illoria.

Silver-rose, quilled petals. Strathmeath. Rosy-pink. The Hub. Fine white.

Hardy Perennial Plants—Continued

COREOPSIS LANCEOLATA GRANDIFLORA. A beautiful hardy border plant; grows 18 inches high, and produces its bright golden yellow flowers in great profusion the entire season.

DELPHINIUMS. (Perennial Larkspur) These are deservedly one of the most popular subjects in the hardy border, bold, attractive, and highly prepossessing plants of easiest culture; perfectly hardy. They will establish themselves in almost any garden soil, but respond quickly to liberal treatment.

Belladonna. The freest and most continuous blooming of all. The clear turquoise-blue flowers are not surpassed by any.

Formosum. Dark blue, white center, spikes 3 to 4 feet tall, vigorous; free blooming.

Formosum. Dark blue, white center, spikes 3 to 4 feet immense flowers.

Giant Hybrids. Unquestionably the finest strain of mixed hybrids ever offered. The original stock came from Europe, and consisted of the best-named varieties. The plants are of strong, vigorous habit, with large flowers on spikes two feet and over long, the majority running in the lighter shades of blue.

DIELYTRA SPECTABILIS. (Bleeding Heart, or Seal Flower) An old-fashioned favorite; its long racemes of graceful heart-shaped pink flowers are always attractive; is perfectly at home in any part of the hardy border, and especially valuable for planting in the shade.

DIGITALIS. (Foxglove) The strong flowerstalks—frequently 4 to 6 feet high—rising from rich and luxuriant masses of leaves, always give an appearance of strength to the hardy border.

Gloxiniaeflora. Finely-spotted varieties. White, purple, rose, or mixed.

FUNKIA. The Plantain Lillies are among the easiest plants to manage; their broad, massive foliage makes them attractive subjects for the border even when not in flower. They succeed equally well in sun or shade.

Coerulea. (Blue Day Lily) Blue, broad green leaves.

Subcordata Grandiflora Alba. (White Day Lily, August Lily) Pure white, lily-shaped, fragrant flowers.

Undulata Variegata. Foliage green, striped with white.

GAILLARDIA GRANDIFLORA. Beginning to flower in June, they continue one mass of blooms the entire summer. Flower, 3 inches in diameter; center dark reddish brown; petals orange to crimson.

GYPSOPHILA. (Baby's Breath) During August and September the plant is a mass of delicate feathery blooms. These may be used as fresh cut flowers, also for a semi-everlasting effect.

Paniculata. Loose, feathery sprays of white flowers; making a mist-like effect; fine for bouquets.

Paniculata Flore Pleno. Produces double pure white flowers. Splendid for bouquets.

GRASSES. (Ornamental.) See page 81.

HELENIUM. (Sneezewort) These are desirable border plants, succeeding in any soil in a sunny location, useful for cutting.

Riverton Beauty. Lemon-yellow, with large purplish-black cone.

Riverton Gem. Old-gold, changing to wall flower-red.

HELIANTHUS. (Hardy Sunflower) The perennial Sunflower is very effective either in borders, among shrubbery, or as clumps on the lawn, etc.

Soleil d'Or. Deep golden-yellow, quilled petals, 4 feet; August and September.

Multiflorus Fl. Pl. Large, double Dahlia-like golden-yellow flowers in great profusion during July and August; 4 feet. (See cut).

Maximiliana. Flowers in long, graceful sprays during October, when all others have finished flowering; 5 to 7 feet.

Molks. Large, single lemon-yellow flowers, with downy white foliage; blooms in August and September; 4 feet.

Sparsifolius. A most gracefully formed single variety of large size, of a deep yellow color, on long stems; splendid for cutting; August to September; 6 to 8 feet.

HELIOPSIS. (Orange Sunflower) *Pitcheriana.* Very similar to a small sunflower, but blooming earlier; deep golden yellow; all summer. June till frost; 3 feet high.

Scabra Zinniaeflora. A new double flowering form of the Orange Sunflower, somewhat resembling a Zinnia in shape. Fine for cutting; July and August; 2 feet.

HEMEROCALLIS. (Yellow Day Lily) Lily-like plants, which flower in greatest profusion during the summer.

Aurantiaca Major. Large, orange flowers. One of the best sorts; June and July; 2 feet high; should be protected during the winter.

Florham. A strong grower 3 to 3½ feet high, large trumpet-shaped flowers; rich golden-yellow, with Indian-yellow markings; June and July.

Flava. The best known variety, very fragrant, deep lemon-yellow flowers in June and July.

Fulva. Grows from 4 to 5 feet high, with trumpet-shaped flowers of a neutral orange color with darker shadings; June and July.

HEUCHERA. (Alum Root) Foliage remains close to the ground. During July and August the graceful thin flower spikes, 2 feet high, appear in profusion.

Sanguinea. Bright scarlet.

HIBISCUS. (Mallow) These are a mass of bloom during the entire summer, when they produce large flowers in gorgeous colors.

Crimson Eye. Blooms of purest white with deep crimson eye; flowering in July; 4 feet.

Mallow Marvels. A robust type of upright habit, producing an abundance of large flowers in all the richest shades of crimson, pink and white.

Giant-flowering Marshmallows. Flowers of enormous size, frequently 10 to 12 inches in diameter, have been developed. They appear to be equally at home in all positions, having the same vigor in dry and wet ground, and are perfectly hardy. They grow from 5 to 8 feet high, and are very floriferous, blooming from early in July until late in autumn. We offer three distinct colors—red, pink, and white—strong roots. One each of the 3 colors for \$1.00.

35c. each, \$3.50 per doz.

HOLLYHOCK. For planting in rows or groups on the lawn, or for interspersing among shrubbery, they are invaluable. They require rich, deep soil, well drained.

Double White, Double Rose, Double Yellow, Double Red, Double Mixed, Single Mixed, Allegheny Fringed Mixed.

IBERIS. (Hardy Candytuft) *Sempervirens.* Low-growing with evergreen foliage. In spring and early summer is completely covered with dense heads of pure white flowers.

German Iris (*Iris Germanica*)

For the best results plant in a well-drained, sunny position, barely covering the roots. Avoid fresh manure in preparing your border.

BARON VON HUMBOLDT. Dark blue.

CANARY BIRD. Light yellow or buff, very fine.

CELESTE. Fine satiny blue. One of the most beautiful German Irises.

COERULEA. Sky blue.

FLORENTINA ALBA. White; one of the most desirable.

FLORENTINA COERULEA. Blue, very fine.

KING OF YELLOWS. Yellow.

L'INNOCENCE. Pure white veined with orange purple.

MME. CHEREAU. One of the most beautiful of its class.

The flowers are pure white, with a broad and irregular border of clear blue, and are borne on strong upright stems that are often from two to three feet tall.

MONT BLANC. Pure white.

PURPURASCENS. Dark Purple.

QUEEN VICTORIA. Blue, changing to pale bluish white.

THORBECKE. White and deep violet.

Price of above Iris, 15c. each, \$1.50 per dozen. If by mail, add 5c. each, 50c. per dozen.

We can furnish large clumps of most of the above varieties from 75c. to \$1.00 each.

KING OF IRIS. A striking novelty, with flowers of perfect form, the standards clear lemon-color, falls deep satiny-brown, with a broad border of golden-yellow. 35c. each.

PALLIDA DALMATICA. One of the finest of strong, vigorous habit, growing in good soil 4 feet high, with exceptionally large, fragrant flowers, standards lavender, falls lavender shaded blue.....25c. each.

PRINCES VICTORIA LOUISE. Standards pure sulphur-yellow; falls rich plum color, with cream-colored edges. New and distinct.....35c. each.

Japanese Iris (*Iris Kaempferi*)

They like rich soil and plenty of water when they are forming buds and developing flowers.

AZUMA NISHIKI. Outer petals have soft pink ground, shading to white at edges, inner petals lilac. Bright yellow star center, standards white with red borders.

AZUMA YUKI. Petals rosy purple with heavy white veins, standards brownish-red, striped with yellow, yellow star center.

Hardy Perennial Plants—Continued

BANRAI NAMI. Petals pale pinkish white with white standards and yellow center.

FUROMON. Petals bright pink, shading to creamy white, with heavy purple veins, standards purple, yellow center.

GOSETSU NO MAI. Petals light blue, yellow star center, with dark bluish purple standards.

HITOME-NO-SEKI. Petals pink and creamy white, beautifully blended, standards pink blotched with white, large yellow star center.

KIMINO-MEDMUI. Soft lilac with dark purple veins, and purple standards.

KRISHI-IKARI. Petals brownish-red with light brown veins, center yellow, standards scarlet striped with white.

KURO KUMO. Petals intense bluish purple, heavily veined with light purple standards.

KYO-DAI-YAMA. Petals indigo, standards greenish blue striped with white.

OKINO-KAMONE. Petals recurved and creamy white, standards pure white.

SASSA NO KOE. Petals recurved and creamy white, veined pink and white, orange center, standards pure white, spotted deep pink.

SHIRAITO-DAKI. Petals creamy white with bluish tinge, finely veined, center yellow, standards white with deep blue edges.

TAI HEI RAKU. Petals rich pansy purple, with light purple standards.

YEZO-NISHIKI. Petals lavender, heavily spotted with dark purple, center yellow, standards lavender bordered with purple.

YODO NO KURUMA. Petals bright pink shading to dark pink at center and heavily veined, standards purple marbled with white.

Above named varieties 35c. each, \$3.50 per dozen.

We can furnish large clumps of most of the above varieties from \$1.00 to \$1.50 each.

Iris Siberica

ORIENTALIS. (Yale Blue) A slender, graceful, tall-growing Iris, with flowers quite similar to those of the German Iris, but smaller and much more numerous. The plants form large, strong, compact clumps, and bloom so freely that the deep blue flowers give almost a solid color effect.

LIATRIS. (Blazing Star, or Gay Feather) Most showy and attractive native plants, succeeding anywhere and producing their large spikes of flowers from July to September.

Pycnostachya. Spikes of light, rosy-purple flowers; 5 feet.

Spicata. Deep purple flowers in spikes 2 to 3 feet high.

LUPINUS POLYPHYLLUS. (Lupine) Effective plants, producing large spikes of flowers.

Polyphyllus. Clear blue.

Albus. A white variety of above.

Roseus. Charming rose pink.

Moerheimi. Its clean bold growth always attracts attention. The spikes of flowers are frequently over a foot long, in color superb, being a combination of light and dark shades of pink without a trace of magenta.

LYCHNIS CHARCEDNOICA. A desirable plant, grows 2 to 3 feet high; flowers, brilliant orange scarlet.

Viscaria Splendens. (Catch Fly) Is a brilliant border plant, the flowers being produced in dense spikes.

LYSIMACHIA. Clethroides. (Loose-strife) A fine variety about 2 feet high, with long, dense, recurved spikes of pure white flowers from July to September.

Nummularia. (Creeping Jenny, or Moneywort) Valuable for planting under trees or shrubs where grass will not grow, where it quickly forms a dense carpet.

LYTHRUM ROSEUM SUPERBUM. (Rose Loose Strife) A strong growing plant, 3 to 4 feet high, producing large spikes of rose colored flowers from July to September.

MERTENSIA VIRGINICA. (Blue Bells) An early spring-flowering plant, growing about one to one and one-half feet high, with drooping panicles of handsome light blue flowers, fading to clear pink; one of the most interesting spring flowers, blooming in May and June.

MONARDA. (Bergamot) Showy plants, growing from 2 to 3 feet high, succeeding in any soil or position, with aromatic foliage, and producing their bright flowers during July and August.

Didyma. (Oswego Tea) Flowers bright scarlet.

MYOSOTIS. (Forget-Me-Not.) *Palustris Semperflorens.* A variety that is hardly ever out of flower; useful in a shady spot in the border.

Alpestris Robusta Grandiflora. The large spring-flowering Forget-Me-Not, with intense sky-blue flowers.

OENOTHERA. (Evening Primrose) Elegant subjects for growing in an exposed, sunny position, either in the border or on the rockery, blooming the entire summer. *Missouriensis.* Large golden yellow; 1 foot.

PHYSOSTEGIA. (False Dragon-Head) One of the most beautiful of our mid-summer flowering perennials, forming dense bushes 3 to 4 feet high, bearing spikes of delicate tubular flowers not unlike a gigantic heather.

Virginica. Bright but soft pink.

PLATYCODON. (Balloon Flower, or Japanese Bell-flower) The Platycodons are closely allied to the Campanulas, and form neat, branched bushes of upright habit. *Grandiflorum.* Deep blue cupped, star-shaped flowers, 1½ feet.

Album. A white-flowered form of the above.

Mariesi. Deep blue bell-shaped flowers, nearly 3 inches across on 1-foot high plants.

Hardy Phloxes (Phlox Decussata)

Probably the most satisfactory of all perennials, and a good space in proportion to the size of the garden should always be given to these plants.

AFRICA. Brilliant carmine-red with deeper eye.

BARON VON DEDEM. Blood-red scarlet, immense trusses.

BERANGER. White ground delicately shaded with pink and distinct red eye.

BRIDESMAID. Pure white, with crimson-carmine eye.

COQUILECOT. Bright orange-scarlet, with crimson eye; extra large compact flower heads.

DAUBIGNY. Rosy purple, with enormous florets.

ECLAIREUR. Dark crimson, center rose, surrounded with white; and excellent variety.

ETNA. Deep fiery red, dark eye.

F. G. VON LASSBURG. The finest white flowers; very large; strong vigorous grower.

FRAU ANTON BUCHNER. The finest white yet introduced, having the largest truss and individual flower.

GEO. A. STROHLEIN. Bright scarlet, with crimson red eye; large flowers, does not bleach.

HENRY MURGER. White, with crimson-carmine center; a beautiful variety.

INDEPENDENCE. An early, pure white.

LE SOLEIL. Bright china rose, dark rose center.

MME. PAUL DUTRIE. Delicate lilac-rose in shade like a soft pink Orchid; flowers very large, borne in immense panicles.

MACULATA. Tall growing, bright purple.

MISS LINGARD. (Suffruticosa) Pearly white, very early and free.

OBERGARTNER WITTIG. Large, crimson-carmine flowers, vigorous grower.

PANTHEON. Bright carmine rose; large and fine.

R. P. STRUTHRES. Bright rosy-carmine, with claret-red eye.

RICHARD WALLACE. White with bright crimson center, large flowers in immense panicles.

ROSENBURG. Bright reddish violet with blood-red eye; individual flowers large.

SELMA. Large trusses of very large pink flowers with cherry-red eye; choice.

SNOWFLAKE. Large flowering pure white.

THEBAIDE. Salmon with carmine eye, dwarf.

VON LASSBURG. Splendid pure white, very large individual flowers.

WM. ROBINSON. Bright pink. Tall growing variety.

Phlox Subulata (Moss, or Mountain Pink)

An early spring-flowering type, with pretty moss-like evergreen foliage, which, during the flowering season, is hidden under the masses of bloom. An excellent plant for the rockery, the border, and invaluable for carpeting the ground or covering graves.

ALBA. Pure white. **ROSEA.** Bright rose.

Hardy Perennial Plants—Continued

Double Paeonies

All Paeonies 40c each except where noted.

DORCHESTER. A most beautiful soft pink of fine form, dwarf grower.

DUC DE WELLINGTON. Large bomb, white guards, sulphur center. Fragrant. Medium tall, vigorous grower; free bloomer. Late.

EDULIS SUPERBA. Bright mauve pink color mixed with lilac, fragrant, strong, upright stems, free bloomer, early.

FELIX CROUSSE. Large double ball-shaped bloom; color brilliant red; one of the finest self-colored varieties. 50c. each.

FESTIVA MAXIMA. White with carmine tipped flakes to a few center petals; a strong grower with immense flowers.

FLORAL TREASURE. Large, full, clear pink with lighter center; blooms large on heavy stems.

HAMLET. Fine full bloom, color very dark red.

JEANNE D'ARC. Outside petals rose colored, inside straw colored, with crimson spots. 60c. each.

LIVINGSTONE. Soft rosy pink, silvery reflex, strong long stems, best late pink. 75c. each.

LOUIS VAN HOUTTE. Medium size, semi-rose type. Deep carmine-rose, tipped silver with a brilliant fiery reflex. Medium late.

MME. CALOT. Large, pale hydrangea-pink, with darker shadings in the center; early.

MADAME BOULANGER. Mid-season. Very large bloom. Color glossy tender rose shading to soft heliotrope, bordered with silvery flesh. Extra fine.

MATHILDE DE ROSENECK. Late, soft flesh-pink, shading deeper toward the center with tintings of lilac and chamois; petals bordered with silver and occasional narrow edgings of bright carmine. 50c. each.

MARIE LEMOINE. Large sulphur white shaded with pink; magnificent.

MEISSIONIER. Broad outer petals, brilliant purple amaranth, inner petals crimson, free bloomer.

PURPUREA SUPERBA. Large purplish-crimson, large guards.

QUEEN VICTORIA. Large, full compact bloom, opening flesh, changing to white, center petals tipped with carmine.

ROSA MAGNA. Beautiful large rose-colored Paeony. Very free.

THORBECKII. Deep red pink; of fine form; lighter in center. Medium dwarf.

TRICOLOR ROSEA. Dark violet rose; large globular flower.

We can supply large clumps of many varieties of Paeonies from \$1.00 to \$1.50 each.

Paeonies in Mixture

They are from our named varieties. We keep the colors separate and offer them to color as follows: White, red, and pink in mixture.

Paeonia Officinalis

This type is the real old-fashioned "Paeony," and comes into bloom from ten days to two weeks ahead of the above sorts. All strong growers with large, full, double, fragrant flowers.

ALBA. Blush-white. **ROSEA.** Rose. **RUBRA.** Crimson.

Paeonies—Japanese Single

The single Paeonies are even more beautiful than the double. They are larger in size of flowers and more delicate in coloring. No other plant flowering at the same season can vie with the Single Paeony.

We offer the following colors: Carmine, Crimson, Magenta, Maroon, Purple, and Rose. 50c. each.

Hardy Garden Pinks

These old-fashioned favorites, are absolutely perfect as an edging for the hardy border; as cut flowers, they are indispensable.

DELICATA. A self-colored variety of a delicate lilac shade, on long stems.

HER MAJESTY. The best, pure white.

NAPOLEON III. Double blood-crimson flowers. The best of all hardy pinks.

NEWPORT PINK. Very early, fine salmon pink.

MIXED HARDY GARDEN PINKS. Seedlings grown from a very select strain, which should produce a good percentage of double flowers.

Oriental Poppies (Papaver Orientale)

The gorgeous colored flowers make a rich, brilliant display. These bloom usually in July; after the flowering period the plants have a tendency to take on the appearance as if they were dead; but they return to vigor as soon as the weather becomes cool.

DIANA. Beautiful salmon flowers.

GOLIATH. Flowers scarlet, of enormous size.

MARY STUDHOLME. Salmon, with silvery shade.

MAHOGANY. Flowers dark red, shading to crimson-maroon.

MRS. PERRY. Salmon-rose.

PERRY'S WHITE. A pure satiny white, with a bold crimson blotch at the base of each petal.

PRINCESS VICTORIA LOUISE. Soft lilac rose.

PROCERPINE. Dark lilac with large black blotch.

ROYAL SCARLET. Scarlet flowers with black center.

SALMON QUEEN. Soft, salmon-scarlet; very distinct.

25c. each, \$2.50 per doz.

ORIENTAL POPPIES MIXED. 15c. each, \$1.25 per doz.

Iceland Poppies (Papaver Nudicaule)

The graceful feathery foliage is surmounted with a mass of stems a foot high, which terminate in a beautiful cup-shaped flower. They flower the entire summer.

Orange King, White, Yellow, Mixed Colors.

Iceland Poppies.

Pyrethrum

The large daisy-like blooms appear as early as June and continue in abundance continuously until September. They delight in a rich soil with a natural drainage. They thrive best in the full sunlight. As the flowers die, the old stems should be cut off to encourage new blooms.

HYBRIDUM FL. PL. Double flowering, mixed.

HYBRIDUM, SINGLE FLOWERING. In choicest mixture.

ULIGINOSUM. (Giant Daisy) Grows 4 to 5 feet high, and is covered with large white daisy-like flowers 3 inches in diameter from July to September.

RUDBECKIA. (Cone Flower) A variety of these will furnish a supply of cut flowers from early July until September. They are extremely hardy, doing well with every one. They could be termed "a city garden perennial," doing so well with little attention.

Golden Glow. Double; canary yellow; 6 feet; August. **Newmanni.** Single dark orange, with deep purple cone center; 3 feet high; flowers from July to September.

Purpurea. (Giant Purple Cone Flower) The flowers remain in perfect condition on the plants for weeks at a time. In fact, we do not know of any other perennial where the flowers last so long in perfect condition. Flowers from July to September; 2½ feet high.

SAXIFRAGA. Umbrosa. (London Pride, Nancy Pretty, or None-so-Pretty) The Alpine Saxifraga requires a semi-shady position in well drained ground or on the rockery. A low growing, spreading sort, throwing up stems a foot high of white flowers, sometimes suffused with red.

SCABIOSA JAPONICA. They last a long time when picked and placed in water. Bears lavender-blue flowers on long stems from July to September.

SEDUM SPECTABILIS. (Brilliant Stone Crop) Erect growing height 18 inches with broad light green foliage and immense heads of handsome, showy rose colored flowers.

Acre. (Golden Moss) Much used for covering graves; foliage green, flowers bright yellow.

SHASTA DAISY. Large snowy-white flowers, in bloom continuously throughout the summer and fall.

Alaska. A decided improvement on the original, very free-flowering, with blooms 4½ to 5 inches across, of pure glistening white.

STATICE. Latifolia. (Great Sea Lavender) Immense heads, 2 to 3 feet across, small blue flowers, which last for months if cut and dried.

Hardy Perennial Plants—Continued

STOKESIA CYANEA. (Cornflower Aster) Produces showy Aster-like deep blue flowers which measure from 4 to 5 inches across. 18 to 24 inches high, blooming freely from July until frost.

SWEET WILLIAM. (Dianthus Barbatus) We offer a superb strain of mixed single and double-flowering sorts.

TRITOMA. (Red-hot Poker, Flame Flower, or Torch Lily). Pfitzerii. (The Everblooming Flame Flower) In bloom from August to November, a rich orange-scarlet producing a grand effect either planted singly in the border or in masses.

VERONICA. (Speedwell) Spicata. An elegant border plant, growing about 1½ feet high, producing long spikes of bright blue flowers.

Longifolia Subsessilis. A pretty species with blue flowers, produced on spikes a foot long, continuing in bloom the entire summer and fall.

VINCA MINOR. (Periwinkle or Trailing Myrtle) Dwarf evergreen training plant, is used for carpeting the ground where it is too shady for other plants to thrive.

Variegata Aurea. A variegated form of the hardy Vinca Minor, the foliage is irregularly margined and marbled with yellow. It should prove valuable for use in the window boxes.

YUCCA FILAMENTOSA. (Adam's Needle) A hardy evergreen plant with long, narrow leaves that are bright green the whole year round. The flowers are white, produced on long spikes.

Ornamental Grasses

ARUNDO DONAX. (Great Reed) Ornamental, grows 10 to 12 feet.

ARUNDO DONAX VARIEGATA. A variegated form, grows 6 to 8 feet.

ERIANTHUS RAVENNAE. (Plume Grass) Grows 6 to 8 feet.

EULALIA GRACILLIMA. (Japan Rush) Narrow, graceful foliage, without variegation.

EULALIA JAPONICA VARIEGATA. Leaves striped white and green longitudinally.

EULALIA ZEBINA. (Zebra Grass) The variegation is across the leaf in regular bands.

PHALARIS ARUNDINACEA VARIEGATA. (Variegated Ribbon Grass, or Gardener's Garters) For bordering large beds.

ALL GRASSES:

25c. each, \$2.50 per doz. Large clumps 50c. to \$1.00 each.

Ornamental Trees and Flowering Shrubs

75c. each, except where noted.

There is nothing that will add to the beauty and value of the home so much as well-selected, judiciously planted Trees and Shrubs, and considering their moderate cost and the fact that they last for many years when properly cared for, is the best reason why they should surround every home. We shall always be pleased to make suggestions as to the best varieties to plant for certain purposes or locations.

ALMOND DOUBLE FLOWERING. Erect slender branches, covered with small double pink flowers.

ALTHEA. (Rose of Sharon) The Altheas are among the most valuable of our hardy Shrubs on account of blooming, from August to October, a period during which but few Shrubs are in flower. They are also extensively used as hedge plants.

Boule-De-Feu. Double red.

Grandiflora Superba. Double blush, white shaded carmine.

Jeanne D'Arc. Double white.

Meehani. Beautiful variegated foliage with satiny lavender colored flowers, single fully open and free blooming.

Purpurea. Single purple.

Rosea. Single white, red center.

Coelestis. Single blue.

Totus Albus. Single pure white.

50c. each. 2 to 3 feet.

ASH, WEEPING MOUNTAIN. Odd, drooping branches. 2 year heads.....\$2.00 each.

AZALEA AMOENA. A dwarf evergreen with small green leaves that deepen to a lustrous coppery hue in winter. In April or May the whole plant is a mass of rosy crimson flowers.....\$1.00 each.

Mollis. A hardy species from Japan. Flowers yellow and different shades of red, in trusses. 75c. each; extra strong plants.....\$1.00 each.

Anthony Koster. One of the prettiest of the Mollis section. Its intense golden orange-yellow flowers are of exceptional large size, and are produced very freely early in May.....\$1.25 each.

BERBERIS. Thunbergii. (Japanese Barberry) One of the most beautiful shrubs either for hedging or general purposes. It is of a neat, compact growth and never need be touched with the shears. The foliage is beautiful at all times and in the fall turns to a most brilliant crimson color. The plant is literally covered with bright scarlet berries all the fall and winter. It seldom grows over 4

feet high. It is fine for the edge of a terrace and along roads and walks, and is justly popular as a hedge plant, forming without clipping a low dense hedge, or by the free use of the shears, a formal hedge of great density and durability. 15 to 18 inches 20c. each, \$1.75 per doz. 18 to 24 inches.....30c. each, \$2.25 per doz.

Vulgaris Purpurea. (Purple-leaved Barberry) Especially remarkable for purple foliage and fruit. When full grown, plants attain a height of 4 to 5 feet, but can be kept at any height below this by shearing. Endures partial shade and is perfectly hardy.

BUDDELEYA. (Butterfly Shrub or Summer Lilac).

Variabilis Magnifica. Flowers continuously all season. The flower racemes are composed of many little blossoms in the shape and color of lilacs. This variety is entirely separate and distinct from Buddleya Veitchiana, which at times is referred to as "Butterfly Bush." Our trials of the two have shown "Magnifica" to be much superior.

CALYCANTHUS FLORIDUS. (Sweet-Scented Shrub) Flowers fragrant, double and of a chocolate color.

CARYOPTERIS MASTACANTHUS. (Blue Spirea) A pretty autumn blooming shrubby plant producing clusters of beautiful blue fragrant flowers in great profusion from September until frost. Dies to the ground in winter.

CATALPA BUNGEI. (Umbrella Catalpa) Grafted on stems 6 to 9 feet high, it makes an umbrella shaped top without pruning. Perfectly hardy. Leaves large, glossy, heart-shaped, deep green; lay like shingles on a roof; always making a symmetrical head. One of the most unique trees; desirable for lawns, park, and cemetery planting. Specimen trees\$2.50

CERCIS CANADENIS. (Judas Tree or Red Bud) Very showy and beautiful when in bloom. All the branches and twigs are covered with a mass of small pink flowers early in the spring, before the leaves appear. 6 to 8 feet \$1.25 each

CLETHRA, ALNIFOLIA. (Sweet Pepper Bush) A desirable, dense growing shrub, with dark green foliage and showy upright spikes of creamy white fragrant flowers in August.

CHIONANTHUS VIRGINICA. (White Fringe Tree) Large shrub or small tree with large, heavy leaves almost hidden in spring by a thick mist of fragrant drooping white flowers. 2 to 3 feet.....50c. each.

CHESTNUT. (Horse Chestnut) Dwarf.....\$1.25 each.

Ornamental Trees and Flowering Shrubs—Continued

CHERRY. (Ornamental) Double Rose Flowering. 5 to 6 feet.....\$1.50 each.

CRAB. (Bechtel's Double Flowering) Most beautiful of all the flowering Crabs; hardy. Trees are covered in early spring with large, beautiful double fragrant flowers resembling small roses of a delicate pink. 4 to 5 feet. \$1.25 each.

CORCHORUS. (Kerria) Globe Flower or Japanese Rose, Japonica. A shrub 4 to 6 feet tall. Native of Japan. Leaves bright green, fading in autumn with tones of yellow. Flowers numerous, bright yellow, large and showy. A charming old-fashioned plant.

Japonica Flore Pleno. Double flowered. This fine old shrub should be in all collections. It is of spreading habit. Its double yellow blossoms, which are about 1 inch in diameter appear early in May, one from each leaf axil. It is excellent for massing.

Argentea Variegata. A dwarf variety with small green foliage, edged with white. One of the prettiest and most valuable dwarf shrubs.

CORNUS. (Dogwood) Florida. (White Flowered Dogwood). Strong plants, 2 to 3 feet.

Rubra. (Pink Flowered Dogwood)

Mascula. (Cornelian Cherry) One of the earliest of spring blooming shrubs, bearing a profusion of small, yellow flowers along its naked branches in early days of April. Bright red berries the size of small cherries, very ornamental. 2 to 3 feet. 40c. each. 3 to 4 feet. 50c. each.

Sanguinea. (Red-branched Dogwood) Very conspicuous and ornamental. Bark in winter blood-red.

CORYLUS PURPUREA. (Purple Leaved Filbert) A conspicuous shrub with large dark leaves; distinct. 60c. each.

CYDONIA JAPONICA. (Pyrus Japonica) Japan Quince, or Fire Bush. A single shrub on the lawn is very attractive; brilliant crimson flowers, among the first in spring. Valuable for ornamental hedges.

CYTISUS. Laburnum. (Golden Chain) A large shrub with shining green leaves and racemes of Wistaria-like yellow flowers, which appear in early summer.

DESMODIUM PENDULIFLORUM. (Lespedeza) A shrub-like plant which dies to the ground in winter, but comes up vigorously each spring. Bears attractive sprays of bright rose-colored flowers in September.

DEUTZIA. We are indebted to Japan for this valuable genus of plants. Their hardihood, fine habit, luxuriant foliage, and profusion of attractive flowers places them among the most beautiful and most popular of flowering shrubs. Flowers in June and through July and August.

Crenata Flora Plena. Flowers double white, tinged with pink, very desirable.

Gracilis. A dwarf bush, covered with spikes of pure white flowers.

Lemoinei. Flowers pure white, borne on stout branches, which are of upright growth. Habit dwarf and free flowering. A decided acquisition.

Pride of Rochester. Large double white flowers; the back of the petals being slightly tinted with rose. It excels all the older sorts in size of flower, length of panicle, profusion of bloom and vigorous habit.

ELEAGNUS. Longipes. (Japanese Oleaster) A desirable nearly evergreen shrub of medium height, with light green foliage, which is silvered on the under surface. The orange-scarlet colored berries are very attractive during late summer.

EUONYMUS. (Strawberry or Burning Bush) Hardy shrubs with showy fruits, noted for intense coloring of the fall foliage. They are well adapted for specimen plants or for massing in the shrub borders. They require moist, loamy soil.

Americanus. (Strawberry Bush) An erect shrub with slender green branches, leaves bright green. Fruit warty, rose color, with scarlet seed coats.

Europaeus. (European Spindel Tree, Burning Bush) A conspicuous shrub in the autumn and winter, when loaded with scarlet seed pods, from which the orange-colored berries hang on slender threads.

ELM. Camperdown. (Weeping) 2 year heads. \$2.00 each.

EXOCHORDA GRANDIFLORA. (Pearl Bush) A vigorous-growing shrub, bearing white flowers in slender racemes in early spring; very graceful; useful for cut flowers.

FORSYTHIA. (Golden Bells) Bright golden yellow, star-shaped flowers, burst into bloom just as winter is leaving and while the bush is otherwise bare. In fact, when in flower, nothing else but bloom can be seen.

Fortunei. Erect growing with dark green foliage.

Suspensa. Of graceful drooping habit, can also be trained for covering arches and trellis work.

Viridissima. Of erect growth and spreading branches, narrow glossy foliage; one of the first to bloom.

HALESIA TETRAPTERA. (Silver Bell) A beautiful large shrub, with pretty white, bell-shaped flowers in May. It is distinguished by its four winged fruit, which is from one to two inches long.

HYDRANGEA. Paniculata Grandiflora. The large panicles of white flowers are at their best during August; later they take on a reddish cast. These plants look fine used as single specimens on the lawn or grouped in large beds. Strong bush form plants.

Paniculata Grandiflora. (Standard or Tree Shaped) These are fine, planted as individual specimens in the lawn or in the center of beds, containing other plants. 2 to 2½ feet long with shapely heads. 75c. each.

Arborescens Grandiflora Alba. (Snowball Hydrangea) The snow-white blooms are of the largest size coming into flower early in June and lasting until late in August. Is more hardy than any other sort and especially suited to plant in shaded places.

KALMIA LATIFOLIA. (Mountain Laurel) For planting in conjunction with Evergreens, the Laurel fills an important part. Foliage is evergreen and about May and June, according to locality, the plant is a mass of flower-heads, resembling somewhat the Rhododendron. A delicate pink, changing to white as they expand. Strong plants \$1.00 each.

LILACS. (True Syringa) Purple (Syringa Vulgaris) The common purple species, and one of the best. White. (Syringa Vulgaris Alba) Flowers pure white; very fragrant.

Price of Any of the Following Named Lilacs Fins Plants, \$1.00 each. Extra strong, \$1.50 each.

Charles X. Rapid grower, reddish, purple flower.

Josikaea. Blooms in June, flowers lilac purple.

Ludwig Spaeth. Long panicles of purplish-red flowers.

Madame Lemoine. Double white flowers.

Marie Legrave. Flowers pure white, extra.

Michael Buchner. Double pale lilac.

LONICERA. (Bush, or Upright Honeysuckle) Handsome upright shrubs. They thrive in almost any soil.

Lebedouri. Very distinct, producing red flowers in May. Morrowi. A handsome Japanese variety with white flowers during May, but especially valuable for its bright red fruit during the summer and autumn months.

Tartaria. (Tartarian Honeysuckle) A large shrub with numerous upright or spreading branches. Flowers borne in great profusion in late spring. Fruit red or orange, ripening in summer. Red, white, and pink.

LYCIUM. (Matrimony Vine) The long branches may be trained over fences or trellises, but more effective results may be obtained by planting at the top of retaining walls or steep banks and allowing the graceful stems to fall over.

MAGNOLIA. We offer the best adapted to our climate.

Alba Superba. Its superb pure white flowers cover the tree in early spring. \$5.00 each.

Alexandria. A Chinese species. The flowers are large pure white, very numerous, and appear before the leaves. \$5.00 each.

Halleana. (Stellata) A pretty dwarf form that opens its snowy, semi-double flowers in April. \$5.00 each.

Lennei. The flowers are of a deep rose color, the foliage large, flowers at intervals through the summer. \$5.00 each.

Soulangeana. One of the hardest. Its blossoms are from 3 to 5 inches across, cup-shaped, white and rosy violet, opening before its leaves, which are massive and glossy. \$5.00 each.

MAHONIA AQUAFOLIA. (Holly-leaved Mahonia) A native species of medium size, with purplish, shining leaves and showy, bright yellow flowers succeeded by bluish berries. 18 to 24 inches.

MAPLES, JAPANESE. These are exceedingly beautiful, especially in spring, when they burst into leaf. Polymorphum Atropurpureum. Leaves deep blood red. \$2.50 each.

Polymorphum Atropurpureum Dissectum. Dark maroon, deeply serrated thread-like leaves. \$3.50 each.

MULBERRY, TEAS' WEEPING. The slender branches grow downward parallel with the stem, forming an umbrella-like shape. It takes the foremost place among weeping trees; has beautiful foliage. 1 year heads. \$1.50 each. 2 to 3 year heads. \$2.50 each.

OSMANTHUS AQUIFOLIUM. A very beautiful evergreen shrub, with dark green, spiny-toothed leaves, resembling the Holly. In the fall, and sometimes in the spring, it produces deliciously fragrant white flowers. Strong plants \$1.00 each

Ornamental Trees and Flowering Shrubs—Continued

PEACH. Double flowering red and double flowering white, 4 to 5 feet.....75c. each.

PRIVET. See Hedge Plants.

PHILADELPHUS OR SYRINGA. (Mock Orange or Orange Blossoms) A Shrub that can always be depended upon to give splendid satisfaction. No insects bother it, and in May and June, the bushes are literally covered with flowers.

Coronarius. (Garland Mock Orange) This is the popular tall variety; very sweet and one of the first to flower.

Coronarius Aurea. (Golden-leaved Mock Orange) Fine golden-yellow foliage, contrasting beautifully with the dark leaves of other shrubs.

Grandiflorous. (Large-flowered Mock Orange) Without a doubt one of the most popular shrubs grown, and ought to be in every garden. Flowers are pure white and very large.

PRUNUS. (Plum, Ornamental) *Pissardi.* (Purple-leaved Plum) Single white flowers in spring, the leaves are a lustrous crimson, changing to a rich purple.75c. each. *Triloba.* (Double-flowered Plum) Native of China. Flowers double, of a delicate pink, thickly set on the long, slender branches; flowers in May before the leaves unfold.

RHODODENDRON. Named hardy Hybrids....\$1.25 each

RHODOTYPOS. (White Kerria) *Kerriodes.* Handsome foliage and large single white flowers in the latter part of May, succeeded by numerous black berries.

RHUS COTINUS. (Purple Fringe, or Smoke Tree) A low shrubbery tree, covered in midsummer with large clusters of feathery flowers, giving the appearance of a cloud of smoke or mist.

RHUS TYPHINA LACINIATA. (Cut-leaved Staghorn Sumac) A large-growing bold and effective shrub, with delicate fern-like foliage and brilliant scarlet fruit in the autumn.

RIBES AUREUM. (Golden Currant) Bright green foliage, beautifully tinted in the autumn; fragrant yellow flowers in May, followed by dark brown fruit.

ROBINIA HISPIDA. (Rose Acacia) A very handsome shrub. The leaves are similar to those of the Locust. In June and July long panicles of rose-colored flowers hang from the branches.

ROSA RUBIGINOSA. (True English Sweet Briar) This is the true Eglantine.

ROSA RUGOSA. (Japanese or Shrubbery Rose) An excellent plant for a shrubbery bed or a solid hedge.

Alba. Single white. *Rubra.* Single reddish pink.

Blanc de Coubert. Double pure white.

SPIREA. A large group of showy, free-flowering hardy shrubs.

Van Houttei. (Improved Bridal Wreath). This is without a doubt the most beautiful and useful of shrubs. Always effective if planted singly or in groups on the lawn, in front of the porch, in shrub borders, or in a hedge. Handsome throughout the entire season. But when in flower it is a complete fountain of white bloom. Clusters of white florets are set close along the drooping stems. *Anthony Waterer.* Makes nice, round bushes 3 feet high and wide; beginning to bloom in summer, continuing until fall. Rose red flowers in large round clusters all over the bush.

Billardii. Pink flowers; bloom nearly all summer. It is grand for planting in masses.

Callosa Alba. A white flowering variety of dwarf, bushy symmetrical form. Flowers all summer.

Opulifolia Aurea. (Virginian Guelder Rose) Golden-tinted foliage and large white flowers in June.

Prunifolia Fl. Pl. (Old Bridal Wreath) Blooms in May, with pure white double flowers.

Reevesii Fl. Pl. Tall with dark, bluish green foliage, and large pure white double flowers, in May and June.

Thunbergi. Of dwarf, graceful form; branches slender and somewhat drooping; foliage narrow and yellowish green; flowers small white, appearing early in spring.

SAMBUCUS. *Aurea.* (Golden Elder) Attractive golden foliage and desirable to mix with other shrubs.

SYMPHORICARPUS. Snowberry and Indian Currant. Small native shrubs much used in shaded places and in open masses. Grow in almost any soil; quite hardy.

Racemosus. (Snowberry) A graceful shrub, 3 to 5 feet tall, with slender branches. Flowers white or pinkish, in loose racemes, in summer. Berries white, produced in showy profuse clusters, the branches bending under their weight.

Volgaris. (Coral-Berry or Indian Currant). A grand shrub, producing a wealth of red or purplish berries which remain on the branches all winter. Flowers greenish red, in summer. Berries coloring, in early autumn, very showy. Does well in shade.

TAMARIX. *Africana.* (Tamarisk) Strong, slender, tall-growing, irregular shrubs, with feathery foliage and small, delicate pink flowers.

THORN. *Paul's Scarlet.* 3 to 4 feet.....\$1.00 each. *Paul's White.* 3 to 4 feet.....75c. each.

VIBURNUM. (Snowballs and High Bush Cranberry) The Viburnums are one of the most useful shrubs, being very hardy and of good habit. They all have white flowers mostly on flat heads and with a few exceptions are noted for their handsome clusters of berries.

Opulus. (High Bush Cranberry) The white flowers in June are followed in autumn by bright scarlet berries, which are very attractive until very late in winter. Strong bush plants.

Opulus Sterilis. (Guilder Rose or Snowball) Of spreading habit, bearing flat clusters of single white flowers, which afterwards produce brilliant red berries, which hang to the plant all winter; very decorative. Strong plants.

Plicatum. (Japan Snowball) One of the choicest hardy shrubs, with healthy dark foliage; the perfect balls of pure white flowers are borne in great profusion in May.

VITEX. *Agnus Castus.* (Chaste Tree) A graceful shrub, growing from 5 to 6 feet high, with dense spikes 6 to 8 inches long, of lilac-colored flowers late in summer.

WEIGELIA. (Diervilla) These shrubs bloom after the lilacs, in June and July. Their large flowers are of wide trumpet-shape, colors from white to red, and borne in clusters thickly along the branches.

Candida. White flowering Weigelia, flowering throughout the summer.

Eva Rathke. The finest Weigelia in cultivation. Flowers continuously throughout the summer and autumn; of an entirely distinct color, being a rich ruby carmine. Should be in every garden.

Rosea. A beautiful shrub, with rose-colored flowers in May and June.

Rosea Nana Variegata. A neat dwarf shrub, valuable for the clearly defined variegation of green, yellow and pink in its leaves; flowers delicate rose and pink; one of the finest variegated leaved shrubs.

WILLOW. *Salix Babylonica.* (Weeping Willow) Hardy and rapid growing shrubs, suitable for waterside planting. 60c. to \$1.00 each.

Hedge Plants

CALIFORNIA PRIVET. (Ligustrum Ovalifolium.) Its foliage is a rich dark green, and is nearly evergreen remaining on the plant until mid-winter. It is of free growth and succeeds under the most adverse conditions, such as under dense shade of trees. The most advantageous manner of planting is in double rows, the two rows being about 8 inches apart. The plants should be set 12 to 15 inches apart in the row, alternating the plants. In order to secure a dense hedge from the base up, the plants should be severely pruned the first two seasons.

2 Year Old Plants \$1.00 per doz.; \$6.00 per 100; \$50.00 per 1,000. 3 Year Old Plants \$1.25 per doz.; \$8.00 per 100; \$70.00 per 1,000.

Extra Large Bushy Plants \$1.50 per doz.; \$10.00 per 100.

AMOOR RIVER PRIVET. A very hardy variety with large oblong, glossy green foliage nearly evergreen. Flowers white, in erect panicles. Splendid for hedges. Very similar to the California Privet so universally used for hedging.

18 to 24 inches.....\$1.50 per doz., \$10.00 per 100

24 to 36 inches.....\$2.00 per doz., \$15.00 per 100

ALTHEA. (Rose of Sharon) Few are aware of the strikingly attractive characteristics of this perfectly hardy and profuse flowering shrub, when used as a hedge plant or as a screen. Plant 15 to 18 inches apart. For prices, etc., see shrubs.

BERBERIS THUNBERGII. (Japan Barberry) Where a low, dwarf deciduous hedge is wanted nothing equals this beautiful Barberry. Requires but little pruning to keep it in shape. The leaves are small, light green, and towards fall assume rich, brilliant colors, the fruit or berries becoming scarlet. Absolutely hardy in all parts of the country. Plant 12 to 15 inches apart.

15 to 18 inches.....\$1.75 per doz., \$12.00 per 100

18 to 24 inches.....\$2.25 per doz., \$16.00 per 100

PYRUS JAPONICUS. (Japan Quince) An excellent hedge plant with scarlet flowers. Plant 15 inches apart. See shrubs. (Cydonia Japonica).

ROSA RUGOSA. (Ramanas Rose of Japan) Both the single red and white flowering forms of this beautiful Rose are popular hedge plants. For price, etc., see Shrubs.

SPIRAEA VAN HOUTTEI. An ideal flowering shrub to use as a dividing line between properties. Plant 18 to 24 inches apart. For prices, etc., see Shrubs.

Can you imagine anything prettier than a well kept hedge of Privets.

Evergreens

ABIES BALSAMEA. (Balsam Fir) A symmetrical tree. Leaves dark green, lighter beneath. 2 to 3 feet, 75c. each. 3 to 4 feet.....	\$1.00 to \$3.00 each.
Bracyphylla. A magnificent Japanese fir, with erect stem regularly whorled horizontal branches. Specimens.....	\$3.00.
Nordmanniana. (Nordmann's Fir) A thick dense tree. The needles are wide dark green, with a silvery under surface. Specimens, 3 feet.....	\$4.00 each.
Veitchii. A tree of splendid habit. The needles are dark green above and silvery white beneath.....	\$5.00 each.
UNIPERUS, PFITZERIANA. Specimens.....	\$5.00 each.
Sabina. (Savin Juniper) A thickly branched dwarf spreading shrub with dark green foliage. 2½ feet. \$3.00 each. Specimens.....	\$5.00 each.
Sabina Tamaricifolia. (Tamarax Leaved Savin) 4 to 5 feet.....	\$5.00 each.
Virginia Cannarti.	\$5.00 each.
Virginia Glauca. (Blue Virginia Cedar) Specimens 4 to 5 feet.....	\$5.00 each.
Virginia Shottei. A distinct variety of pyramidal habit, with light green foliage. Specimens.....	\$2.50 each.
PICEA EXCELSA. (Norway Spruce) A rapid vigorous growing tree, with dark green foliage. One of the most popular evergreen trees. 3 to 4 feet. \$1.50 each. 4 to 5 feet. \$2.00 to \$2.50 each. Specimens.....	\$5.00 each.
Excelsia Compacta. Very attractive, compact and distinct. Specimens.....	\$4.00 each.
Excelsia Remontii. Dwarf compact variety. 2 feet. \$1.50 to \$4.00 each.	
Orientalis. Compact, with short dark green needles. Specimens.....	\$3.50 each.
Pungens Glauca Kosteriana. (Koster's Blue Spruce) The finest ornamental evergreen grown. The foliage is the purest blue. Specimens 2½ feet. \$4.00 each. 3 to 3½ feet.....	\$5.00 each.
Pungens Glauca Pendula. (Koster's Weeping Blue Spruce) Specimens.....	\$7.00 each.
PINUS AUSTRIACA. (Austrian Pine) A tall tree, with spreading branches heavily plumed with long, stiff needles. 2 to 2½ feet.....	\$1.00 each.

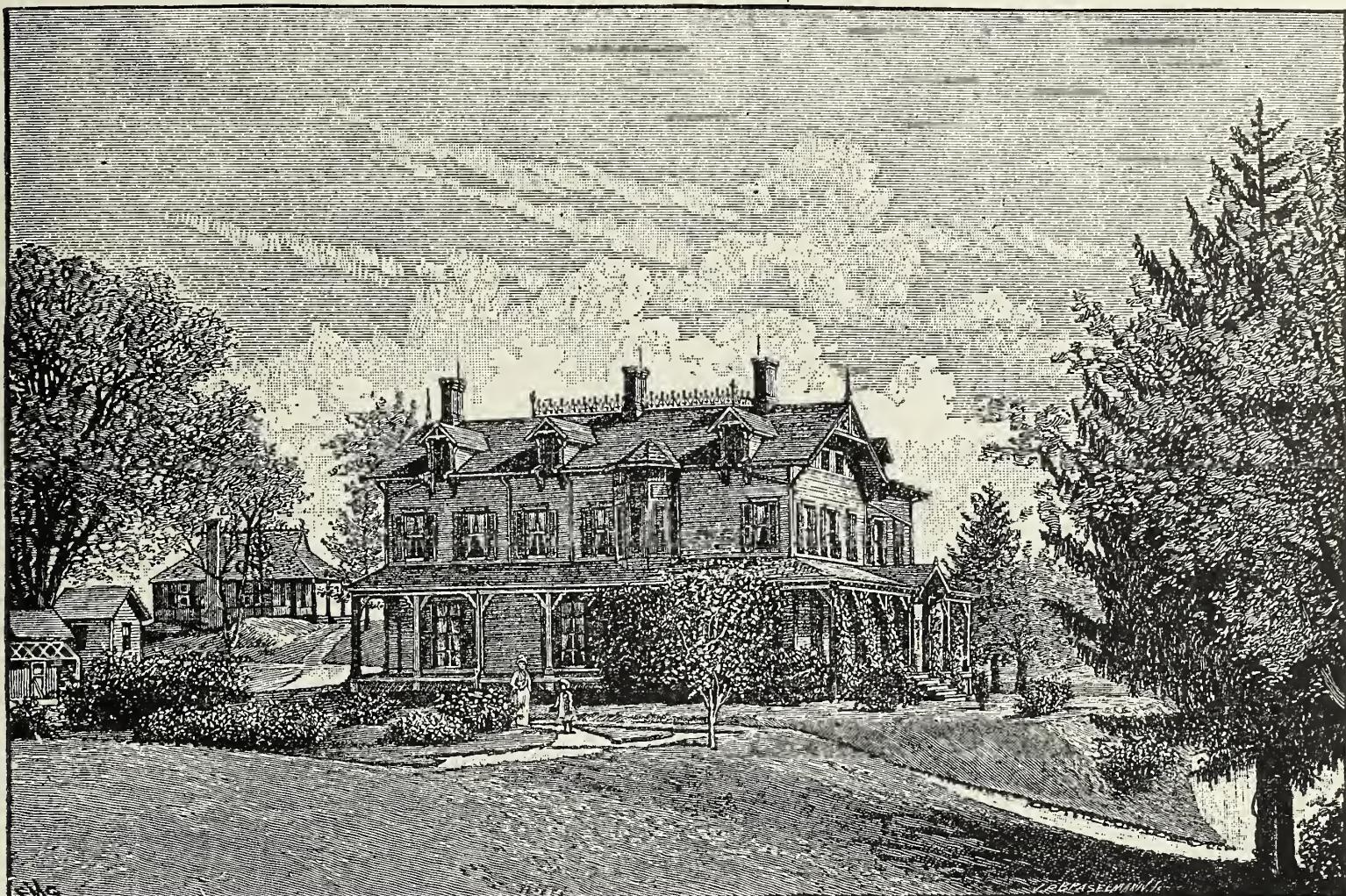
Cembra. (Swiss Stone Pine) A hardy slow growing tree of distinct habit. 2 feet.....	\$2.00 each.
Strobus. (White Pine) A beautiful ornamental tree, also used for shade and shelter belts. 2 to 3 feet....	\$1.00 each.
Sylvestris. (Scotch Pine) A strong grower, with spreading branches and short stiff needles. 2 to 3 feet, 75c. each; 3 to 4 feet.....	\$1.00 each.
RETINOSPORA FILIFERA. A broad bushy tree, with dark green foliage in pendulous thread-like strings. 3½ feet.....	\$4.00 each.
Pisifera. Slender branches. Foliage light green above, silvery beneath.....	\$3.50 each.
Pisifera Aurea. Golden evergreen, light airy foliage. Specimens 2 feet. \$2.00 each. 3 feet.....	\$3.50 each.
Plumosa. Light green feathery foliage, it stands shearing well.....	\$2.50 each.
Plumosa Aurea. A dense small sized graceful tree. The young growth is a bright golden yellow. Specimens 3 feet.....	\$3.50 each.
Plumosa Aurea Globe-Shaped.	\$3.50 each.
Squarrosa Veitchii. Dense growth; soft beautiful silvery blue foliage, arranged in spirals. 2 feet. \$2.00 each. Specimens.....	\$3.50 each.
TAXUS CUSPIDATA. A large handsome bush with spreading branches; foliage deep glossy green above, pale yellowish green beneath. Specimens.....	\$4.00 each.
THUYA OCCIDENTALIS. (American Arbor Vitae) Well-known screen and hedge plant. 3 to 4 feet....	\$2.00 each.
Occidentalis Columbia. 2½ feet.....	\$2.00 each.
Occidentalis Globosa Nova. Grows naturally into a rounded almost ball-like form. 2 feet.....	\$3.00 each.
Occidentalis Wareana. A valuable species for cold climates, dense and shapely.....	\$2.00 to \$3.50 each.
Pyramidalis. Suitable for tubs.....	\$2.50 each.
Species Rivers. 2½ feet.....	\$2.00 each.
Standishii. Of graceful drooping habit. 3 feet..	\$3.50 each.
TSUGA CANADENSIS. (Hemlock Spruce) Native tree that grows rapidly, very hardy. 2½ feet. 3 feet.....	\$3.50 each.
	\$5.00 each.

Shade Trees

	Each.	Doz.
ALNUS (Alder) European.....	6 to 8 ft. \$1.25	\$12.50
Imperial Cut-Leaved.....	3 to 4 ft. 1.25	12.50
ASH, American White.....	8 to 10 ft. 2.00	20.00
American Green.....	8 to 10 ft. 2.00	20.00
European	6 to 8 ft. 2.00	20.00
Mountain	8 to 10 ft. 2.00	20.00
BEECH. Purple-Leaved.....	4 to 5 ft. 2.00	20.00
BIRCH, European White.....	8 to 10 ft. 2.00	22.00
Purple-Leaved	3 to 4 ft. 2.00	22.00
CATALPA, Speciosa.....	8 to 10 ft. 2.00	20.00
CLADRASTIS TINCTORIA,		
Yellow Wood.....	5 to 6 ft. 2.00	20.00
CYPRESS, Deciduous.....	6 to 8 ft. 2.00	20.00
ELM, American.....	8 to 10 ft. 2.00	20.00
English	6 to 8 ft. 2.00	20.00
Scotch	8 to 10 ft. 2.00	20.00
HACKBERRY	5 to 6 ft. 2.00	20.00
HORSE CHESTNUT		
White Flowering.....	6 to 7 ft. 2.00	20.00
Red Flowering.....	4 to 5 ft. 2.00	20.00
American Buckeye.....	5 to 6 ft. 2.00	20.00
KENTUCKY COFFEE TREE.....	5 to 6 ft. 2.00	20.00
KOELREUTERIA PANICULATA		
3 to 4 ft. 2.00	22.00	
LABURNUM, Scotch.....	5 to 6 ft. 2.00	22.00
LARCH, European.....	8 to 10 ft. 2.00	22.00
LINDEN, American.....	8 to 10 ft. 2.00	22.00
European	6 to 8 ft. 2.00	22.00
Silver or White Leaf.....	6 to 8 ft. 2.00	22.00
LIQUIDAMBER		
Sweet Gum.....	6 to 8 ft. 2.00	20.00
MAPLE, Norway.....	8 to 10 ft. 2.00	20.00
Rock of Sugar.....	8 to 10 ft. 2.00	20.00
Scarlet	8 to 10 ft. 2.00	20.00
Weir's Cut-Leaved.....	8 to 10 ft. 2.00	20.00

	Each.	Doz.
Silver or Soft.....	8 to 10 ft. \$2.00	\$20.00
Cork Bark.....	3 to 4 ft. 2.00	20.00
Schwedleri	6 to 8 ft. 2.00	20.00
Ash-Leaved (Box Elder).....	8 to 10 ft. 2.00	20.00
Sycamore Leaved.....	5 to 6 ft. 2.00	20.00
MULBERRY, Russian.....	5 to 6 ft. 2.00	20.00
OAK, Red.....	6 to 8 ft. 3.00	30.00
Scarlet	6 to 8 ft. 3.00	30.00
Pin	6 to 8 ft. 3.00	30.00
Burr or Mossy Cup.....	8 to 10 ft. 3.00	30.00
Golden	4 to 5 ft. 3.00	30.00
White	8 to 10 ft. 3.00	30.00
English	6 to 8 ft. 3.00	30.00
OLIVE, Russian.....	6 to 8 ft. 3.00	30.00
PAULOWNIA IMPERIALIS		
(Empress Tree).....	4 to 6 ft. 1.50	15.00
PERSIMMON, American.....	4 to 6 ft. 1.50	15.00
POPLAR, Carolina.....	10 to 12 ft. 1.50	15.00
Balsam (Balm of Gilead).....	6 to 8 ft. 1.50	15.00
Bolleana	8 to 10 ft. 1.50	15.00
Golden Aurea.....	6 to 8 ft. 1.50	15.00
Lombardy	6 to 8 ft. 1.50	15.00
SALISBURIA		
Maiden Hair or Ginkgo.....	4 to 5 ft. .75	7.50
SYCAMORE, American.....	6 to 8 ft. 1.00	10.00
European	5 to 6 ft. 1.25	10.00
TULIP TREE	6 to 8 ft. 1.25	12.50
NUT BEARING TREES		
CHESTNUTS, American.....	6 to 8 ft. 2.00	20.00
Spanish	3 to 4 ft. 2.00	20.00
Japan	3 to 4 ft. 2.00	20.00
FILBERT, English.....	3 to 4 ft. 2.00	20.00
HICKORY, Shell Bark.....	2 to 2½ ft. 2.00	20.00
PECANS	3 to 4 ft. 2.00	20.00
WALNUTS, English.....	2 to 3 ft. 2.00	20.00
Black	5 to 6 ft. 2.00	20.00
Japan	6 to 8 ft. 2.00	20.00

Evergreens and shade trees add to the beauty of any home.



VELVET LAWN SEED

A Superior Mixture of Selected Grasses for Lawns, Terraces, Croquet Grounds, Etc.

You will find no chaff or dirt in our VELVET LAWN SEED; it starts at once.

Price, 1 lb., 50c; 5 lb., \$2.25; $\frac{1}{2}$ Bu. 8 lb., \$3.25; Bu. 15 lbs., \$6.00.

The mixture of grass seed that we sell under this name is made by the identical formula used by some Park Commissioners in their work in laying out the beautiful lawns and terraces, which add so much charm to new parks. For many years the grass seed on a good many lawns has been supplied by us, which fact should be a strong guarantee of quality. This mixture gives a fine, velvety sward within a few weeks after sowing. The very large demand for this lawn seed has necessitated our having the name "Velvet" as a trade mark, in order to protect ourselves from imitators.

Our Velvet Lawn Seed is made up of all the recleaned seeds of different varieties that will make a good lawn quickly, so that when the seed is sown, if the ground is in proper shape, it will start at once, and in a short time show a beautiful, deep green lawn and retain the same during the season with slight attention.

Upon no one thing does so much depend in making beautiful home grounds as upon a good lawn, for without that velvety green carpet, no place, however lavishly planned or grandly built, looks finished. The average person who buys a few pounds of grass seed and sows it on a hard-baked soil usually feels he has done his full duty and lays the subsequent failure of the seed at the door of the seedsman. The real lover of nature and the beautiful need never be disappointed in his lawn if care is used in the preparation of the soil and selection of his grass seed.

To obtain a good lawn grass mixture, it is necessary that the best possible seed of fine grasses be used in the combination, embracing such varieties as are of neat, close growth, extreme hardiness, and adapted to produce a quick, permanent sod. Judicious selection of seed, knowledge of the habits, vigor, quality, and hardiness of varieties used in the mixture can only be gained by thorough and practical tests under different climatic and soil conditions. We offer our lawn grass seed mixture, composed of a thoroughly balanced combination of various native and foreign fine-leaved, deep-rooting grasses of interweaving habit, that will flourish under varied soil and climatic conditions, and which may be depended upon to produce a beautiful, compact, evergreen sod that will resist tramping and hard usage, and at the same time present that handsome, velvety appearance so much desired.

Watering the lawn is not as necessary as is popularly imagined. The only time it is needful is in time of drought. Surface sprinkling is responsible for the poor appearance of many lawns. It has a natural tendency to make the roots seek the best supply of moisture, which, in this condition, would be near the surface. A deep-rooted lawn is the best. If you must water, water thoroughly. Take the nozzle off the hose and let the stream flow continuously for a couple of hours, then move and water another section.

DIRECTIONS—The following directions may be found useful to those who are not familiar with lawn making. First get the ground in good shape and be sure that the surface is smooth and well drained. An application of sheep manure, at the rate of ten pounds to three hundred square feet, or pure bone meal in the same proportion, will be very beneficial. On larger lawns use four bushels of grass seed to the acre and one thousand pounds of fertilizer. After spreading the fertilizer, the surface should be carefully raked and rolled. After sowing, the ground should again be lightly raked and rolled. One pound of our seed will sow 300 square feet. Four or five bushel per acre for new lawns being about the amount required. For renovating purpose, use only one-half the amount used on a new lawn.

Notice—Some of the finest Lawns were made with our Velvet Lawn Seed.

SHADY NOOK LAWN SEED

For sowing on the north side of buildings, between houses, and for securing a lawn under large shade trees

Price: 1 Lb. 60c; $\frac{1}{2}$ Bu., 8 Lbs., \$3.50; 1 Bu., 16 Lbs., \$6.50.

In many lawns there are places which seem as if nothing can be grown; some are shaded by large trees and others by buildings. For these locations we have offered for some time our Shady Lawn Seed, which really meets the desired requirement.

It is always advisable for those who are seeding down the shady places to supply new soil, if possible, especially if the large trees are producing the shade, as their roots spread so fast and exhaust the nourishment in the soil. In the event of not being able to supply new soil, the ground should be well dug over and if tree roots predominate, these should be taken out.

In most places where grass seed is to be sown, when shaded by buildings, the soil will have a tendency to sour, and in such cases we strongly recommend the use of agricultural lime (about 50 lbs. per 1,000 sq. ft.).

This special mixture for shady locations is selected from the best grasses possible to obtain for this purpose, and only those that will grow and flourish under shady conditions are used.

The ordinary lawn grass might grow for a short time, but as a general rule it will not last but one or two seasons, and then make a poor showing.

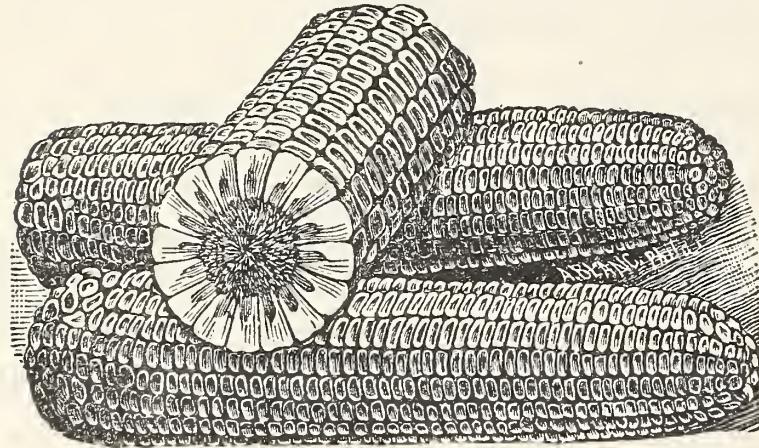
Shady Nook Lawn Seed, if sown in these places, will undoubtedly grow and produce the best satisfaction.

Mixtures for Golf Links

While there are on the market numerous ready prepared golf mixtures of more or less value we have found that the best results are obtained by giving individual attention to each customer and making a special mixture to suit his needs. We have thus overcome the difficulties presented by the great dissimilarity of local conditions of various links, and are willing to give you the benefit not only of our experience on some of the best greens in the country, but of expert knowledge of grass seeds as well. Write us a description of your links, telling what the nature of the soil is, how drained, how much it has the sun, whether the winters are long or open, and whether the summers are wet or dry, and we will offer you two or more mixtures especially adapted to the various parts of your grounds.

FIELD CORN

Our strains of corn are not the common kinds usually found in abundance on the market; we pay special attention to the selecting of stocks in all lines of farm seeds. This is particularly true of field corns where re-selection means the limit of crops with little or no increase in cost. It is amazing to realize where the old, unselected seed is used the average crop per acre is only half compared to the more intelligent selection of strains. Our stock is selected for size of ear and fodder, uniformity of kernel and the careful finish of the tip and butt, all of which means a considerable increase in production. Plant 8 to 10 quarts per acre in hills, sow $2\frac{1}{2}$ to 3 bushels broadcast for fodder. Never use feeding corn for seeding purposes. All our corn is grown in Ohio and thoroughly acclimated, insuring the greatest yield.



M. G. Seed Co's. Truly a variety of great merit offered and named by us and, **Perfected Golden Harvest** as anticipated, it has met with great favor wherever it has been tested. Beautiful in its rich Golden color and profitable in its depth of grain and ears, well filled out to the extreme end. Stalks, strong, vigorous with broad leaves, which make it a valuable fodder Corn. This variety offered to the public only after careful observation for a number of years. In the preparation of this Corn for Seed each ear is carefully selected, tipped and butted and hand-shelled, insuring corn of the highest percent germination.

True Yellow Leaming The Standard Variety for Quality. An extensively-grown, large, Yellow Dent variety, which we have grown and sold with the greatest satisfaction for years. Our improved strain we do not believe is excelled, if equaled, by any other now offered. It has pure, glossy yellow ears, growing low, on very strong, heavy stalks; grains square and deep; ripens quite early—frequently in 100 days from planting.

Reid's Thoroughbred Yellow Dent If any seed grain can truly be called pedigree, the Reid's Yellow Dent Field Corn is certainly entitled to be known as such, as its history dates many years back. It has been bred up and selected with painstaking care to what is at the present time one of the best varieties of yellow corn grown. Ear medium in size, remarkably uniform, and of a bright yellow color, with solid, deep grain and small, red

cob. Has from 18 to 24 rows of kernels on the cob, 50 to 60 grains in the row, and is well filled over the ends, and especially the butt, leaving a small shank, which makes it a great favorite with huskers. Best shredding sort, as it shatters the least of any by actual test.

Boone County White Dent

The shape of the ear is cylindrical to within about two inches of the tip, then slightly tapering. Tips fill well over the end and a large per cent. of the ears are entirely covered with grains; the butts are well rounded out with a medium-sized shank, kernels very uniform wedge-shaped, pure white, and white cob; ears average about 10 inches in length with the circumference about three-fourths of the length.

Of strong and vigorous habit of growth and well covered with broad blades—very valuable for ensilage. The length of season is about 120 days. This corn has been successfully grown as far north as Ft. Wayne, Ind., or Marion, Ohio. We especially recommend it for the great corn-growing valleys in latitudes of Columbus and south.

Silver Mine

One of the best yielding White Dent Corns. Cylindrical shape, tapering a little at the tip end; 18 to 20 rows; kernels deep and cobs small. A fine shelling and high-yielding variety.

Red Cob Ensilage

A southern type of large, white corn, with deep red cob, strong leafy stalks, and short joints. Adapted to all sections of the country, and a general favorite with thousands of dairy farmers.

Sugar Corn or Ensilage

There is nothing better for green feed or curing for winter than sweet corn. Cattle highly relish it, and when fed on it, keep in fine condition and give an abundance of milk. It has the great merit of being so sweet and palatable that cattle eat every part of the stalks and leaves, and consequently none is wasted. Also excellent for siloing. Sow thickly in drills or broadcast at the rate of 2 to 3 bushels per acre.

SEED POP CORN

Plant two quarts to the acre

White Rice

A handsome variety, kernels long and pointed, very prolific. Price, Lb. 25c.

Queen's Golden

The stalks grow six feet high and the large ears are produced in abundance. It pops perfectly white Price, 25c.

Also cream of all yellow varieties. The M. G. Seed Co.'s Perfected Golden Harvest.

GRASS SEEDS

Prices upon Application.

Awnless Brome Grass (*Bromus inermis*) A perennial, valuable for binding the soil of embankments and for resisting both drought and cold. On light, dry soils it is used for hay and pasturage, but is not recommended where better grasses will succeed. Sow forty pounds per acre.

Canadian Blue Grass (*Poa compressa*) A hardy perennial with creeping root-stalks which form a strong turf. It withstands drought better than most cultivated grasses and is especially valuable in Lawn Grass mixtures. It succeeds best on clay soils but does well on sandy soils, being better adapted for use on sterile knolls and barren fields than probably any other cultivated grass. For hay or pasturage it is best sown in mixture with other grasses. It is distinguished from the Kentucky Blue Grass by its flattened, shorter stems and bluer color of leaf. Height six to twenty inches.

Creeping Bent Grass (*Agrostis stolonifera*) This is particularly valuable for lawns that are to be used as croquet and tennis grounds, because it is benefitted more than hurt by trampling and by its bright color adds to the beauty of the lawn.

Hard Fescue (*Festuca duriuscula*) Similar to Sheep's Fescue, but not so dense and taller. It will often cover sandy soil under the shade of large trees where no other grass will grow. It is a desirable addition to lawn grass. Sow thirty pounds per acre.

Kentucky Blue Grass (*Poa pratensis*) Fancy Clean. Sometimes called June Grass, but the true June or Wire Grass is much inferior. Kentucky Blue Grass is the most nutritious, hardy and valuable of all northern grasses. Sown with White Clover it forms a splendid lawn; for this purpose use not less than fifty-four pounds of Blue Grass and six pounds of White Clover per acre. If sown by itself for meadow or pasture use about twenty-eight pounds per acre.

Meadow Fescue or English Blue Grass (*Festuca pratensis*) A perennial, from two to four feet high, with flat, broad leaves. One of the standard European grasses. It needs rich ground and succeeds well on prairie soil. An excellent pasture grass to take the place of the wild grasses, as it yields a large amount of early and late feed. Sow about twenty-five pounds per acre.

Rhode Island Bent Grass (*Agrostis canina*) A valuable perennial for lawns and pasturage. Much like Red Top, though smaller. Thrives on light, dry soils as well as on rich, moist ones. For lawn purposes, if used alone, it should be sown at the rate of about forty pounds per acre; for pasture, if used alone, twenty-four pounds per acre.

Sheep's Fescue (*Festuca ovina*) A small tufted, hardy grass forming a cluster of narrow cylindrical leaves. Valuable in mixture for lawns on dry soils and in shady locations. Sow about thirty-five pounds per acre.

Tall Meadow Oat Grass (*Avena elatior*) A hardy perennial much used in the South and West. Roots penetrate deep. It yields a heavy crop on any good soil, and is valuable both for meadow and pasture. Sow thirty to forty pounds per acre.

SUDAN GRASS (Andropogon Sorghum)

A sweet heavy-yielding grass, foliage, and seed resembles Johnson Grass, but is an annual. Root system is like oats. Seeds from 300 to 400 pounds per acre from Florida to Montana. Absolutely drought proof. Grows 6 to 10 feet high. Stems erect, unbranched, very leafy; and three to four cuttings, 4½ to 6½ tons per acre of dry, sweet hay that cattle prefer to Cow Pea hay. Ripe for hay cutting in 70 days, and cut every 30 days following. Plant from March to July in 18 to 30 inch rows, 5 pounds to acre, or broadcast 10 pounds. Each seed stool wonderfully—20 to 40 stools per seed.

Soudan Grass is Without Doubt the Greatest Drought-Resistant Forage Crop Known. At the same time it does not blight where the moisture is heavy, and under good seasonable conditions it yields a larger tonnage of hay per acre than any other crop known. It recovers rapidly after cutting and the crop is usually ready for harvest within thirty days from the first cutting.

A revolution in haymaking. Sweeter than Johnson Grass, makes more hay, and yet an annual with no objectionable root system. Early Cow Peas, and Early Soy Beans and Sudan mix well.

Grass Seed Mixtures

We prepare for many customers special mixtures of grass and clover seeds for certain soils and will cheerfully give information on this subject when so requested. Our price on these will be about the same as the market price on grass seed as we do not charge for mixing or bagging.

Orchard Grass (*Dactylis glomerata*) Desirable on account of its quick growth and valuable aftermath. It is ready for grazing in spring two weeks sooner than most grasses and when fed off is again ready for grazing in a week and will continue green when other grasses are withered by dry weather. It is palatable and nutritious and stock eat it greedily when green. A tendency to grow in tufts unfit it for lawns. It does better if sown with clover and as it ripens at the same time, the mixed hay is of the best quality. If sown alone, about twenty-eight pounds are required per acre; if sown with clover, half that quantity. Perennial.

Perennial Rye Grass (*Lolium perenne*) A very valuable variety for permanent pasture. Succeeds well on almost any soil, but is particularly adapted to moderately moist or irrigated lands. Sow thirty to forty pounds per acre in spring.

Westerwold Italian Rye Grass (*Lolium Italicum Westerwoldicum*) An extremely rapid growing annual for spring and summer sowing. As a forage and pasture grass it thrives on almost any soil but does best on heavy loam, clay, or land of a somewhat damp character. It is lighter in color and coarser in leaf than Perennial Rye but is very much stronger growing. After cutting it is the quickest grass to start again, making a new growth more rapidly than any other sort with which we are acquainted. From our repeated comparative trials we believe this is a most valuable addition to the list of grasses grown in this country.

Red or Creeping Fescue (*Festuca rubra*) A creeping rooted grass, resisting extreme drought, and especially adapted for forming a close and lasting turf in shady places. Valuable also for exposed hillsides, and golf courses. Sow thirty pounds per acre.

Red Top (*Agrostis vulgaris*) In Pennsylvania and States farther south this is known as *Herde's* Grass, a name applied in New England and New York to Timothy. It is a good, permanent grass, standing our climate well, and makes good pasture when fed close. It is also valuable for low, wet meadows, producing a large return in good hay. Sow in spring or fall.

RED TOP FANCY. Sow eight to ten pounds per acre. **RED TOP UNHULLED**. When sown alone, use about twenty-eight pounds of the chaff seed per acre.

Tall Fescue (*Festuca elatior*) A valuable perennial grass, very productive and nutritious. Succeeds best on moist, heavy soil, but will do well on any good soil, wet or dry. If used alone sow forty pounds per acre.

Timothy (*Phleum pratense*) The most valuable of all the grasses for hay, especially in the North. Thrives best on moist, loamy soils of medium tenacity. It should be cut just when the blossom falls. Sow early in the spring or fall, at the rate of twelve pounds per acre, if alone, but less if mixed with other grasses.

Wood Meadow Grass (*Poa nemoralis*) Grows from one and one-half to two feet high: has a perennial creeping root and an erect, slender, smooth stem. Well adapted to shaded situations, such as orchards and parks, for either hay or pasture. Sow about thirty pounds per acre.

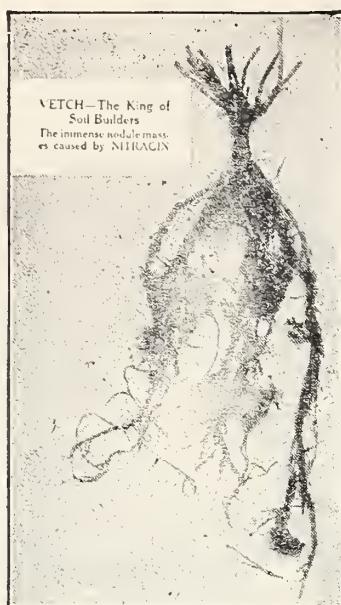
Speltz or Emmer A combination of Wheat, Oats and Barley, which is excellent for fattening cattle, poultry, horses, sheep, pigs, etc. Makes a heavy yield of grain and hay; excellent pasture, and may be fed green. Sow 70 to 80 pounds per acre.

Miscellaneous, Bird and Sundry Seeds

Five Cents per Pound Extra, if Sent by Mail

	Per Lb.
Black Locust.....	\$0.40
Honey Locust .....	.40
Castor Beans .....	.20
Canary Seed .....	.25
Mixed Bird Seed .....	.20
Caraway Seed .....	.75
Celery Seed, for flavoring.....	.40
Fennel Seed .....	.75
Flax Seed .....	.15
Flax Seed, crushed .....	.20
Hemp Seed .....	.15
Lettuce Seed, for birds .....	.20
Maw or Poppy Seed .....	.75
Millet .....	.05
Mustard Seed, white, for pickles .....	.25
Mustard Seed, black.....	.25
Osage Orange .....	.40
Pumpkin Seed (10 Lb. at 18c) .....	.25
Rape Seed .....	.20
Sunflower Seed .....	.20
Water Melon Seed for tea .....	.20

Notice—Special low prices on all Grass Seeds upon request.



PRICES

(State for what crop.)

Bushel size.....\$1.00
 $\frac{1}{2}$ Bushel size..... .55
 Garden size..... .15

Be sure to state what crop the "NITRAGIN" is to be used for.

You can also get the special Garden "Nitragin," which is good for Peas, Beans and Sweet Peas, and large enough for the average garden. Simply order GARDEN "NITRAGIN" 15c.

For Success with Legumes

Inoculate Your Seed with "NITRAGIN"

You should not sow Alfalfa, Clover, Vetches, Cowpeas, Soybeans, Peas or Beans without



Helps Legumes, Stores Nitrogen in the soil—a Safe, Sure Bacteria applied on the seed.

"Nitragin" Increases Yield--Makes Fertile Soil

Don't Sow Legume Seed Without Inoculation

Science has definitely proven that certain crops must find certain bacteria in the soil or they will prove a disappointment or a failure.

The pure culture system of inoculating Legume seed is endorsed and recommended by the U. S. Dept. of Agriculture, experiment stations, other agriculture experts and farmers who have used "Nitragin." It insures your crop. It will enable you to get a "catch."

Once tried you will always use it. It pays for itself ten times over. It is not an expense, but a necessary investment for the best results. It improves the quality and increases the yield. Don't fail to mention crop you will use "Nitragin" on.



"Nitragin" is put up in a granulated medium and packed in a ventilated can, the modern scientific way of packing legume germs.

include "NITRAGIN" with your seed order--Mention crop you want it for

CLOVER SEED

Alfalfa or Lucerne (*Medicago sativa*) It is useless to sow this clover on land having a stiff clay or hard pan subsoil, as the roots naturally penetrate to a great depth and must do so if the plants live any time. Sow on rich, moist loam or sandy soil having a deep, porous subsoil. Prepare the land thoroughly and sow seed at the rate of fifteen to twenty-five pounds per acre with a broadcaster or grass seeder. Cover with a brush or light harrow. The young plants are quite tender and the land must be free of weeds until they become established.

Crimson Trefoil or Scarlet Italian (*Trifolium incarnatum*) An annual variety in common use in the southeast for feeding green and for hay, and also found profitable on the sandy soils of New Jersey. The yield in fodder is immense and after cutting, it at once commences growing again, continuing until severe cold, freezing weather. It grows about one foot high; the roots are nearly black; leaves long; blossoms long, pointed and of very deep red or carmine color. Makes good hay. It is sown in August or September in the South, but should not be planted in the North until spring. Sow ten to fifteen pounds per acre.

Alsike or Swedish (*Trifolium hybridum*) This perennial is the most hardy of all clovers. On rich, moist soil it yields an enormous quantity of hay or pasture, but its greatest value is for sowing with other clovers and grasses, as it forms a thick bottom and greatly increases the yield of hay; cattle prefer it to any other forage. The heads are globular, fragrant, and much liked by bees which obtain a large amount of honey from them. Sow the seed in spring or fall, at the rate of six pounds per acre, when used alone.

Mammoth or Large Red (*Trifolium pratense*) This sort grows nearly twice the size of the Common Red Clover, often making a stand when the other clovers fail. Sow about eight to twelve pounds per acre.

Medium Red or June (*Trifolium pratense*) This is by far the most important of all the varieties for practical purposes. Sow in spring or fall and if no other grasses are used, at the rate of eight to twelve pounds per acre; more is required on old, stiff soils than on new and lighter ones.

White Dutch (*Trifolium repens*) A small, creeping perennial variety valuable for pasture and for lawns. It accommodates itself to a variety of soils, but prefers moist ground. Sow in spring at the rate of six pounds per acre, or when used with other grasses, half that amount.

Bokhara, or Sweet Clover

WHITE FLOWERED. (*Melilotus Alba*) a biennial plant and bears a close resemblance to Alfalfa, but is larger and coarser. It will make an excellent growth on any lime lands and stiffest clays, or any soils so hard and barren that they will sustain no other vegetation. It makes only a moderate growth and seldom blooms the first year, but during the second year it will reach from four to seven feet high, making stronger and heavier roots than any other forage plant. At the end of the second season it matures its seed and dies out; the roots decaying soon after.

The roots are very long, penetrating the soil to a depth of three to four feet, are large and being fleshy, decay more rapidly than alfalfa roots, hence their nitrogen becomes more quickly available for other crops. As they decay at the end of the second season, there is a good supply of humus.

Sweet Clover on account of its strong odor is not liked very much by stock at first, but since it starts very early in the spring when other forage is scarce, animals turned into a pasture of it at that time soon acquire a taste for it and eat it readily throughout the remainder of the season.

If cut before it ripens its seed, it will not spread. However, it will reseed the ground thoroughly if not cut in due time. Sow ten to fifteen pounds per acre.

YELLOW FLOWERED. (*Melilotus Officinalis*) It resembles the White Sweet Clover, but blooms about three weeks earlier; produces finer stalks and does not grow as tall. It makes first class hay and excellent pasture for cattle and sheep. It will grow on any kind of soil, and being deep rooted, remains green in the driest season. It should be sown by bee keepers in localities where Alfalfa is not grown, as it is one of the best honey plants.

UNHULLED SEED. (Bokhara.) It is very slow to germinate.

JAPAN CLOVER. (*Lespedeza Striata*) It thrives on poor land and produces continual herbage. Half-hardy. Sow 10 to 12 lbs. per acre.

Ask for special lowest Market Prices on all Clovers.

MISCELLANEOUS FARM SEEDS

NOTICE—Owing to almost Daily Market fluctuations of all farm seeds we have omitted prices. If interested will quote upon request.

Barley, Common Barley succeeds best on rich lands more sandy and lighter than those adapted to wheat. It is shown in the spring and can be grown farther north than any other grain. Unless intended for seed it should be cut before fully ripe, as it is then heavier, of better quality and less liable to shell. Use about two and one-half bushels per acre.

Broom Corn IMPROVED EVERGREEN. The best variety for general cultivation on account of the color and quality of brush. Ripens early; grows about 8 to 10 feet high; brush of good length, fine and straight, and always of green appearance when ripe. Plant 8 to 10 quarts to the acre.

Buckwheat, Japanese Plants large and vigorous, maturing seed early and resisting drought and blight remarkably well; the grain is much larger and has a thinner hull than Common or Silver Hull. Recommended especially for well-drained or sandy land and the dry climate of the western plains.

Buckwheat, Silver Hull An improved variety much better than the old sort. It is in bloom longer, matures sooner, and yields double the quantity per acre; husk thinner, corners less prominent; grain a beautiful light gray. The flour is said to be better and more nutritious.

Flax (*Linen usitatissimum*) Sow late enough in the spring to avoid frost and early enough to secure good stand and enable the crop to ripen before the fall rains. A fair average quantity of seed to be sown on an acre is one-half bushel, when cultivated for seed; if for the fibre, a large quantity should be sown. Cut before quite ripe and if the weather be dry, let it lay in the swath a few hours, when it should be raked and secured from the weather; thresh early in the fall and in dry weather.

Rye, Fall or Winter A hardy, strong growing annual, cultivated not only for its grain and straw, but valuable also for soil improvement and as a cover-crop and for use as green manure. It can be successfully grown under greater extremes of climatic conditions than probably any other cereal, but makes its best growth on soils containing less clay than some which are adapted to wheat. Good drainage is very important. The time for sowing is from the middle of August to the last of September. Prepare the ground as for wheat and sow broadcast or with a drill at the rate of one and one-half bushels per acre. 3 lbs., postpaid, 40c.

CANADA FIELD PEAS

These are used for various purposes, chief among them being a very early green food; when used this way they are sown with oats about April first at the rate of 1½ bushels of peas and 1½ bushels of oats to the acre, either drilled or broadcast. The oats are intended as a support for the peas. They are cut just after the peas flower, and fed green. Sheep, hogs, and cattle relish them keenly. They may be sown successively up to July if one has the available land. Peas may also be sown alone at the rate of three bushels per acre, and furnish excellent pea hay; horses like it very much when properly cured, as does all other stock. For plowing under as green manure, they add a vast amount of nitrogen to the soil and succeeding crops sown there the same year or even later, particularly wheat, are wonderfully benefited by producing a more luxuriant growth and larger yield. The dried peas are extensively fed to pigeons, while when ground as meal, is an excellent addition to the regular soft food of cows, sheep, and horses.

Vetches or Tares SPRING. (*Vicia sativa*) A perennial pea-like plant grown as an annual in the North. Desirable as a forage plant and valuable as a cover-crop for orchards. Culture same as for field peas. Sow ninety to one hundred twenty pounds per acre.

Vetches SAND, WINTER OR HAIRY (*Vicia villosa*) A very hardy forage plant growing well on soils so poor and sandy that they will produce but little clover. Its nitrogen-gathering properties make it particularly valuable as a soil renewer and enricher, but it is not recommended for land which is to be cultivated for grain crops on account of its tendency to volunteer and persist. The plants,

Hungarian (*Panicum germanicum*) This is a species of annual millet growing less rank, with smaller stalk, and darker beard, and often yielding two or three tons of hay per acre. It is very valuable and popular with those who are clearing timber lands. Sow and cultivate like millet.

Kaffir Corn A great fodder crop. The finest grain for poultry and pigeons. The stalks keep green and are brittle and juicy, making excellent fodder, either green or dried, which is highly relished by cattle, horses, and mules. The seed heads form at the top of each stalk, and as soon as these show the grain well, the joints next below the top send up shoots, which yield the second seed heads. For the grain, sow in rows three feet apart; 3 to 5 lbs. of seed to the acre. For fodder, sow 25 to 50 lbs., either broadcast or in drills.

Millet, Common (*Panicum miliaceum*) Requires a dry, light, rich soil, and grows two and one-half to four feet high with a fine bulk of stalks and leaves. It is early maturing and is excellent for forage. For hay, sow broadcast, about 25 lbs. per acre, from May first to August first. For grain, sow in drills, about twelve pounds per acre and not later than June 20.

Millet, German or Golden An improved large leaved variety, growing three to five feet high; later maturing than Common Millet, and a heavy yielder. The heads, though numerous, are very large and compact. The seeds are contained in rough, bristly sheaths and are round, golden yellow in color and very attractive in appearance.

when mature, are about forty inches high and if cut for forage as soon as full grown and before setting seed, they will start up again and furnish even a larger crop than the first. Seed round, black, and should be sown thirty to sixty pounds per acre.



RAPE DWARF ESSEX FOR SOWING. There is but one variety of Rape that has proven profitable to sow in America, and that is the Dwarf Essex. No other plant will give as heavy a yield of forage at such a small cost as this, and its general cultivation would add largely to the profits of American farms. Especially valuable for green manuring and pasture. When fed off by sheep, it will probably do more to restore and make profitable exhausted soils than any other plant. Biennial.

Ground should be prepared same as for turnips. Sow in June or July, with a turnip drill, in rows two and one-half feet apart, at the rate of two and one-half pounds of seed per acre. It may be sown broadcast, either with other fall forage crops or by itself, using from one to five pounds of seed per acre. Lb., postpaid, 25c.

MISCELLANEOUS FARM SEED (Continued)

Sugar Cane (Sorghum)

Amber The best early variety and the one which we especially recommend for the North where the season is short. It is practically as early as the old Early Amber and yields much more per acre either of syrup or seed. The plant is large, of strong, vigorous, and erect habit and stands up much better than Early Amber. It may be planted as late as the fifteenth of June and will be in condition to harvest for syrup in September. Cane seed should not be planted before the weather is warm in the spring. Three to four pounds of seed are required per acre.

Early Orange An exceedingly valuable variety; very large, of strong and vigorous habit and does not fall down. It is early and often yields as much as two hundred and forty gallons of very beautifully colored and highly flavored syrup to the acre. We recommend it highly to all desiring a superior cane.

Sunflower **LARGE RUSSIAN.** This has very large single heads borne at the top of a single unbranched stalk usually, and with much more and larger seed than the common sorts. It is used extensively for feeding poultry. The plant often grows ten feet high. Sow seed as soon as ground is fit for planting corn, in rows three to four feet apart and ten inches apart in row. Cultivate same as corn. When the seed is ripe and hard, cut off the heads and pile loosely in a rail pen having a solid floor or in a corn crib. After curing so that they will thresh easily, flail out or run through a threshing machine and clean with a fanning mill. This variety will yield 1,000 pounds or more of seed per acre. Some species are planted largely in the flower garden for ornament.

Carefully Grown, Selected Seed Oats

Danish Renegade Oats As indicated by the name, this variety originally was imported from Denmark, where the summer season is quite cool and comparatively short, as instanced by the fine strains of cauliflower and winter cabbages produced in that country. We have had our stock of seed of this variety grown in the Northwest, where the growers are most enthusiastic in its praise. It is very productive, growing with a strong, stiff straw from four to five and a half feet in height. Grains plump, thin-hulled, and of a bright yellow, often three grains in a spikelet and distributed over the entire head. The stalks, being so stiff and heavy, do not lodge, nor does the grain fall off during a stormy season. The straw is very strong, well bladed, and when sown thinly stools very freely, as many as forty stalks being produced from a single grain. It is an excellent variety to sow with Canada field peas or vetches, and other leguminous crops where the latter are grown to produce ensilage or cured for hay. The strong, stiff straw makes a grand support for the running vines of the leguminous crop.

SEED WHEAT. We handle the best varieties only. Prices on application.

COW PEAS

The Great Soil Improvers—Makes Poor Land Rich—Makes Good Land More Productive.

Cow Peas make one of the largest yielding and most nutritious forage crops grown. There is also no surer or cheaper means of improving and increasing the productivity of your soils than by sowing the Cow Peas.

There is a wide difference between Cow Peas and Canadian Peas. Bear in mind that the Southern Cow Peas belong to the Bean family, therefore must not be sown until the ground is thoroughly warm and all danger from frost is past. The value as a fertilizing crop exceeds that of clover, for, in addition to being a larger nitrogen gatherer than the clover, they draw from the subsoil to the surface large amounts of potash and phosphoric acid, thus putting the soil in most excellent condition for following crops. The feeding value of Cow Peas, either green fed as hay or preserved as ensilage, is very high, being considerably above that of Red Clover. The yield of green vines per acre runs ordinarily from five to fifteen tons.

Sow 1½ to 1¾ bushels per acre, on land thoroughly pulverized and disc or plow with a cultivator or double-shovel plow. If wanted for hay, cut when peas are forming; cure as clover. If peas are for fertilizer, sow same quantity after same preparation as for hay; turn under when peas are in bloom. If farmers will first roll and disc peas they will turn under much easier and be more satisfactory. For a fertilizer, especially to be followed by wheat or corn, they are simply the best.

WILL QUOTE PRICES ON APPLICATION. All orders accompanied with the money will be filled at the lowest market price, upon receipt.

EARLY BLACK. Matures quickly, best variety for the extreme northern sections of the country.

WHIP-POOR-WILL. An early variety, tall, upright, medium yield of vines, large yield of peas, for which they are particularly grown. Highly recommended for "hogging down."

CLAY. The leading variety in the South. Large yield of vines and peas, but require longer season to mature than the former-named varieties.

NEW ERA. Seed small, dun colored; earlier than Whip-Poor-Will, but more trailing in habit. A great favorite in many places.

MIXED COW PEAS. These are splendidly adapted for those who merely wish same for feeding purposes, and being mixed, we are able to offer them at a lower price.

SOY OR SOJA BEANS

THE GREAT LAND RENOVATOR—THE KING OF SUMMER FORAGE CROPS.

This very valuable farm plant enriches the ground in which it is planted by the free nitrogen gathered from the air and which is deposited in the ground by the roots, leaving it in ideal condition and rich in nitrogen for the next crop. Fodder is relished in either green or dry form by cattle and dairy cows.

Soy, or Soja Beans, is an annual. Its character or growth resembles ordinary field beans. During the past few years the United States Department of Agriculture and State Experiment Stations have tested many varieties of Soy Beans and pronounced it a forage and grain plant of great promise. They are grown chiefly for hay, grain, silage, soiling, pasture, and as a soil renovator, are not hard to grow, not exacting to the character of soil and a valuable plant for forage, some claiming they have a higher protein content than Alfalfa.

These beans should not be seeded until all danger of frost is past and the ground is thoroughly warmed, and usually sown from the middle of May until July.

It is best to plant beans only about one or two inches deep, or as shallow as moisture supply will permit, for the formation of a crust may prevent the beans from growing.

If grown for seed or silage, in drills 24 to 30 inches apart, sow about three pecks per acre.

If grown for hay or soiling, the foliage will be of a finer quality and be consumed with less waste; drilled solid, or sown broadcast using from 1½ to 2 bushels per acre.

For hay, cut when pod begins to form.

For grain, cut just before beans are ripe, or when pods are beginning to take on a brownish black appearance. For silage, cut as near maturing as possible without dropping the leaves.

SOUTHERN GROWN

EARLY BLACK. Sometimes known as Tar Heel or Ebony Black. Mature considerably earlier than Mammoth Yellow and considered superior. Also produces a fine crop of hay, and believe will mature in this section if sown early.

EARLY BROWN. This is a good variety, producing a large crop of hay, but not quite as early as the Early Black.

MAMMOTH YELLOW. One of the oldest and best-known varieties, producing a large hay crop and a fine fertilizer, giving good satisfaction at all times.

NORTHERN GROWN

ITO SAN. Early Yellow seeded variety being 10 to 15 days earlier than the Medium Green; will mature seed in this section and a good hay producer.

MONGOL. Early variety and of yellowish cast and produces both seed and hay in this section; recommended very highly.

MEDIUM BROWN. A few days later than the Medium Green; grow a little taller and seeds of somewhat larger size and does not shatter as badly. Will give a good yield of seed, also first-class hay crop.

MEDIUM EARLY GREEN. The earliest and one of the oldest and best known sorts, which has become quite a favorite north of the Ohio River both for seed and forage crop. Grows 24 to 38 inches in height; stems medium stout—½ to ¾ inch in diameter. The leaves are very dark green, full and large in center, while the edges are freely curled. Pods of medium size, 1 to 1½ inches long. Color of seeds, bright green. The branches are usually far enough above the ground to permit easy harvesting.

Poultry Feeds and Supplies

The following is a lot of Poultry Feeds, etc., we always carry in stock in large quantities without prices quoted, owing to constant market fluctuations. We invite all who contemplate purchasing anything in the Poultry Supply line to get our special prices before buying elsewhere.

Hen Feeds

ALFALFA MEAL.
BARLEY.
BONE, GRANULATED.
BRAN.
BUCKWHEAT.
BLOOD MEAL.
CRACKED CORN.
CHARCOAL, Coarse, Medium, and Fine.
EGG MASH.
GRIT, Coarse, Medium, and Fine.
HEMP.
KAFIR CORN.
MILLET.
MIDLINGS.
MEAT SCRAPS
OATS.
OYSTER SHELLS, Coarse and Fine.
RYE.
SCRATCH FEED.
SUNFLOWER SEED.
SHELLED CORN.
VETCHES.
WHEAT.

Chick Feeds

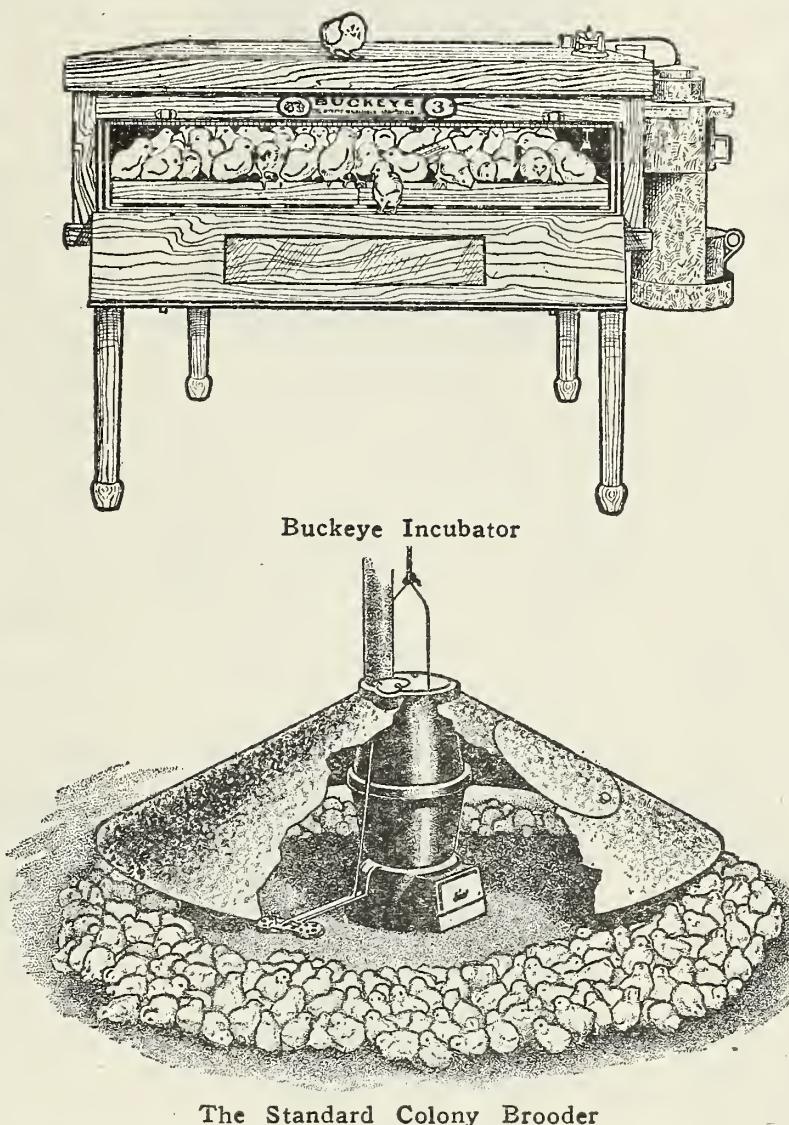
CHICK SCRATCH FEED.
CONKEY'S BUTTERMILK FOOD.
DEVELOPING FEED.
ALFALFA MEAL.
PIN HEAD OATS.
MILLET.
PRATT'S BABY CHICK FOOD.
CRUSHED OYSTER SHELLS, Fine.
MICA CRYSTAL GRIT, Fine.
PRATT'S BUTTERMILK BABY CHICK FOOD.
PRATT'S BUTTERMILK GROWING MASH.

Pigeon Feeds

PIGEON FEED—MIXED—NO GRIT.
HEMP.
CANADA PIGEON PEAS.
BARLEY FOR PIGEONS.
PIGEON MILLET.
HARD WHEAT, RE-CLEANED.
VETCHES.
MICA PIGEON GRIT.
OYSTER SHELLS, for Pigeons.
CRACKED CORN.
KAFIR CORN.
MILLET.
SOY BEANS.

Leg Bands

LEG BANDS—Celluloid Key Rings. American and Mediterranean breeds, 10 colors. Dozen, 15c; 50 for 45c; 100 for 75c. Chicken and Pigeon Size—Dozen, 10c; 50 for 30c; 100 for 50c.



Security Portable Brooder Buckeye Portable Brooder

Centre Heat
Capacity 150 Chicks.

No. 20—Capacity, 60 chicks.
No. 21—Capacity, 100 chicks.
No. 22—Capacity, 150 chicks.

We are jobbers of PRATT'S FOODS, REGULATORS, AND REMEDIES, insuring you fresh goods always. We have constantly in stock the following:

PRATT'S BABY CHICK FOOD. A predigested food for Baby Chicks. Pkg. 30c and 60c; also 14, 25, 50, 100 Lb. Sacks.

PRATT'S BUTTERMILK GROWING MASH, for chicks. This splendid Mash is the result of scientific tests, and is composed of the best and highest quality grains, buttermilk and bone, making phosphates, insuring healthy chicks. Lb. 10c; 3 Lbs. 25c; 100 Lbs.

PRATT'S HEAD LICE OINTMENT, for chicks. It soothes and heals, and is safe to use on all parasite diseases. Tins, 35c.

PRATT'S POWDERED LICE KILLER for chicks. It quickly kills all lice on small or large chicks in a day's time. Small size, 12c; Larger Pkgs. 25c and 50c.

PRATT'S WHITE DIARRHEA REMEDY. To protect your chicks from the most destructive disease. Pkg. 25c; Large 50c.

PRATT'S POULTRY REMEDY. Insure healthy birds, lots of eggs, builds up vitality, prevents disease. Small Trial Pkg. 12c; larger 25c and 50c; 12 Lb. Pail, \$1.65; 25 Lb. Pail, \$3.00; 100 Lb. Bag, \$10.00.

PRATT'S CHOLERA REMEDY. An unfailing remedy for Cholera and Guaranteed to do the work. Pkg. 25c and larger 50c.

PRATT'S ROUPE REMEDY. The Guaranteed remedy for Roupe, Colds, Catarrh and all cold weather diseases. In tablet form. Package, large 25c and 50c sizes.

PRATT'S CONDITION TABLETS. Keeps the heavy layers up to concert pitch, and puts exhibition birds in prize-winning form. Pkg. 25c; larger 50c.

PRATT'S GAPE REMEDY. A sure cure for this deadly disease. Pkg. 30c; larger 60c.

PRATT'S BRONCHITIS REMEDY. Quickly absorbed by the blood, reduces fever, allays inflammation. Pkg. 25c; larger 50c.

PRATT'S SCALY LEG REMEDY. Sure cure for this annoying disease, which impairs their vitality. Pkg. 35c; larger 70c.

We also carry in stock CONKEY'S REMEDIES.

Brooder and Incubator Lamp—both gas and oil—for the Celebrated Buckeye Machine.

The Most Wonderful Hatching Device Ever Invented

Whether you are a beginner or a big breeder, we want you to try a Buckeye—any of the six sizes—and see just how easy it is to produce a big strong chick from every hatchable egg.

ASK FOR CATALOGUE DESCRIBING ALL SIZE INCUBATORS WE HANDLE.

Select the incubator you want—send us your order—and we will guarantee the machine you buy to hatch every hatchable egg you put in it—or better still—let us show you a Buckeye in operation and prove to you that they will hatch more chicks and better chicks than any incubator or old hen you ever saw.

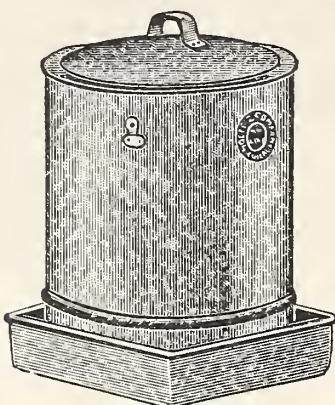
THE STANDARD COLONY BROODER is the most practical brooder ever invented. It will do anything any other brooder will do and do it better. Everlasting, self-regulating and nothing to wear out.

No. 18 broods up to 500 chicks.

No. 19 broods up to 1,000 chicks.

Moe's Improved Top Fill Fountains

Made in Three Popular Sizes



Pure Fresh Water at all Times

Made of heavy galvanized iron, with double walls, which keeps the water cool in summer, and retards freezing in winter. Feeds automatically, no valves to get out of order. Fills from the top, thus avoiding the annoyance of spilling over while being filled. Thoroughly sanitary and as easily cleaned as an ordinary pail.

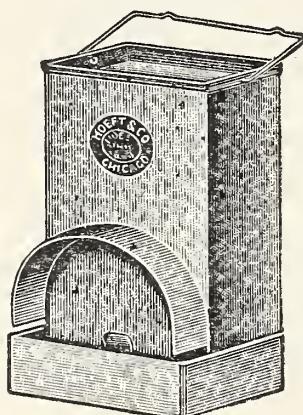
Can be hung up out of the litter, and the square pan gives drinking facilities for two pens at the same time.

Fill the fountain in the morning and the chickens have an all day's supply of pure water at just the right temperature.

The best and most popular fountain on the market.

No. 1—1 Gal. \$1.75
No. 2—2 Gal. \$2.40
No. 4—4 Gal. \$3.25

Moe's Drop Bottom Wall Fountains



A practical, durable fountain. Easy to fill and easy to clean. Made of best quality galvanized iron. May be hung on the wall out of the litter and dirt.

Suitable for chicks, fowls or pigeons. Fitted with wire handles, so that two or more fountains, back to back, can be carried in one hand.

No. 40 $\frac{1}{2}$ Gal. \$.90
No. 41 1 Gal. \$1.15
No. 42 2 Gal. \$1.35

Moe's Wall Fountains

Removable Bottom Easily Cleaned

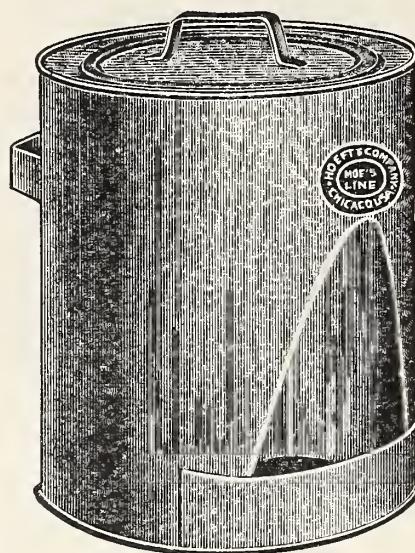
A practical and convenient style of fountain, made of heavy galvanized iron. Can be hung on the wall, up out of the litter.

A very popular style with many breeders.

Made with a removable bottom, so that all parts may be easily cleaned and kept in a sanitary condition. Capacity about one gallon.

No. 26-A, 1 gallon..... Each 75c.

Moe's Wall Fountains



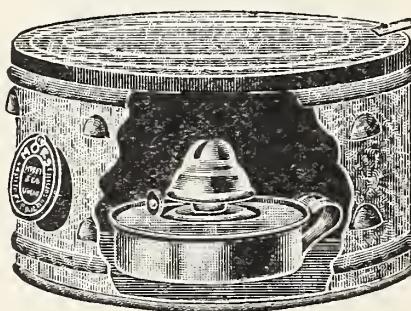
Capacity 5 Gallons

A large capacity fountain, made of heavy galvanized iron.

This style appeals to many breeders, as it is a strong substantial wall fountain at a low price. Excellently adapted for watering pigeons. Easily filled and nothing to get out of order.

5 Gallons..... Each \$2.00

Moe's Fountain Heater



Can be used with all styles of fountains, and effectively prevents water from freezing. When used with our No. 74 Wall Fount makes an ideal combination Heater-Fountain of large capacity.

Effectively solves the problem of a uniform supply of fresh, clear water at all times, no matter how cold the weather.

The lamp fount or bowl holds sufficient kerosene to burn continuously for seven days. Simple and safe. Nothing to get out of order.

No. 10. Price..... Each \$1.80

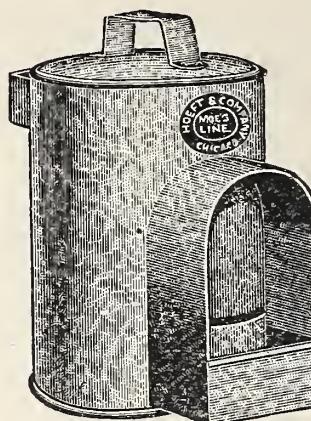
Moe's Bottom Fill Fountains



This fountain fills the breeders requirements for a good inexpensive article. Made in two pieces accurately stamped and formed. Easily filled and cleaned. The round taper shape prevents bursting from freezing. Made of best quality galvanized iron in three popular sizes.

No. 19. 1 Quart..... each \$.35
No. 20. 2 Quarts..... each \$.45
No. 24. 1 Gallon..... each \$.70

Moe's Improved Wall Fountains



Made of heavy galvanized iron, in three sizes. The covered outlet keeps out dust and dirt, and the outlet is further protected by a removable plate which prevents any floating rubbish from being drawn into the reservoir.

No. 97. 2 Quarts..... each \$.50
No. 98. 1 Gallon..... each \$.75
No. 99. 2 Gallons..... each \$1.00

Moe's Brooder Fountains

No brooder is complete without one of these simple, sanitary fountains. Fits in a corner of the brooder and occupies but a small space. Can be hung up if desired.

Baby chicks can not get wet. Easily cleaned.

Made of best quality galvanized iron. Packed 1 Dozen in box.

No. 0, 1 Quart..... Each 45c

The Famous Moe Star Fountain and Feeder



STAR FOUNTAIN
(Patented)

Fits any Mason Jar in Sizes 1 Pint, 1 Quart, 2 Quarts.

Made of One Piece of Heavy Non-Rusting Metal. No Solder, No Seams, No Loose Parts.

Our "Star" is the most popular "best seller" that a dealer can handle.

Convenient, practical, low in price, and durable.

Made of a single piece of heavy non-rusting metal.

No seams, no solder, no loose parts. Can not leak!

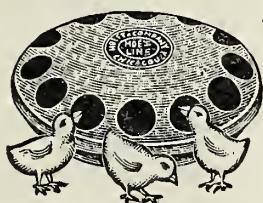
Provides a greater drinking surface than the round fountains.

Can be used for feed as well as water. Little chicks can not drown.

Made in one size only, which will fit any Mason jar, in sizes 1 Pint, 1 Quart and 2 Quarts. (We do not furnish the glass jars.)

No. 32 Star Fountains..... Each 10c.

Moe's Round Baby Chick Feeders



NO. 11 FEEDER
PATENTED

The most popular baby chick feeder on the market.

Made of best quality galvanized iron, accurately stamped with dies, and well made in every detail.

The top fits snugly; yet can be easily taken apart for cleaning and filling.

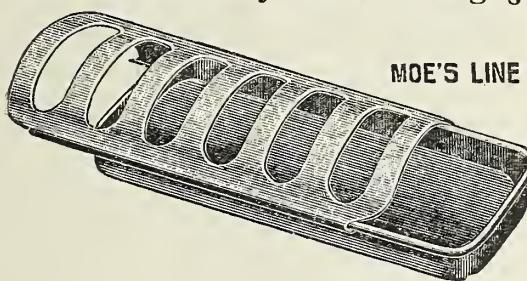
A great feed saver; as the chicks can not get into it and contaminate the feed. Can also be used for water or milk.

Chickens can not upset it. Made in two popular sizes.

No. 11—Diameter 6 in. with 8 holes. Price each 15c.

No. 12—Diameter 8½ in. with 12 holes. Price each 25c.

Moe's Sanitary Feed Troughs



No. 21, length 12 in.; No. 22 length 18 in.; No. 23 length 24 in.;

Sliding top can be quickly removed for cleaning or filling.

Suitable for dry feed, wet mash, or water. For grown fowls.

The tops slide off, so the pan can be easily cleaned, and filled.

Made of best quality galvanized iron, accurately stamped with dies. The edges of the slotted openings are all turned over and smoothly finished. No sharp or rough edges to injure the chicks.

The feed saved by using Moe's troughs will more than pay their cost in a short time. Made in three sizes.

No. 21. Length 12 in....each \$0.45

No. 22. Length 18 in....each \$0.65

No. 23. Length 24 in....each \$0.90

Moe's Single Feeding Troughs

Sliding top easily cleaned.

For chicks and growing stock.

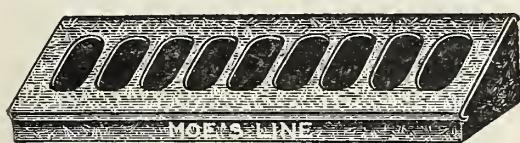
Made of the best quality galvanized iron, accurately stamped with dies. No sharp or rough edges to injure the chicks. Made in three sizes. Can be hung on the wall.

No. 55. Length 12 in....each \$0.35

No. 56. Length 18 in....each \$0.45

No. 57. Length 24 in....each \$0.65

Moe's Double Feeding Troughs



Sliding top easily cleaned.

For chicks and growing stock.

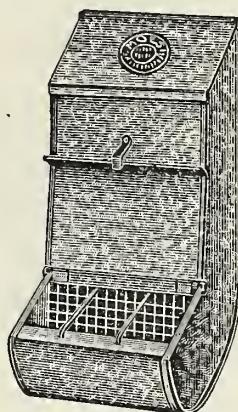
Made of best quality galvanized iron, accurately stamped with dies. No sharp or rough edges to injure the chicks. Made in three sizes.

No. 58. Length 12 in....each \$0.50

No. 59. Length 18 in....each \$0.65

No. 60. Length 24 in....each \$0.75

Moe's Dry Mash Hoppers



No. 36

A Dry Mash Hopper of great merit, made of heavy galvanized iron. All parts accurately stamped with dies. The curved bottom keeps the feed within easy reach of the birds, and the taper shape of the hopper—larger at the bottom—prevents the feed from clogging.

The wire grid and the wires running from the flange through the wire grid prevent the fowls from throwing out or wasting the feed.

The sloping top prevents them from roosting on the hopper.

When both covers are closed it is rat, mouse, and weather proof.

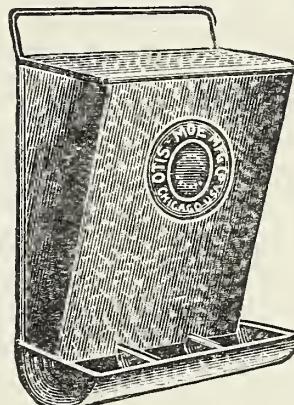
Made in three sizes.

No. 35. Height 19 in.; width 8½ in. each \$1.50.

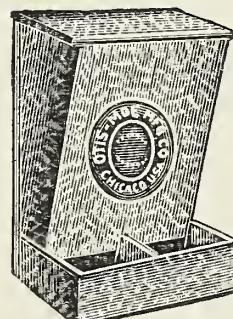
No. 36. Height 19 in.; width 12 in.; each \$2.00.

No. 37. Height 19 in.; width 24 in.; each \$2.80.

Moe's Grit and Shell Boxes



No. 9



No. 45

The feeding of grit, ground shells, and charcoal is now recognized as an essential part of the diet, to keep fowls in healthy, prime condition. There is no more economical method of supplying grit, etc., than with these practical, inexpensive compartment boxes. No solder used in their construction.

Can also be used as feed hoppers for little chicks.

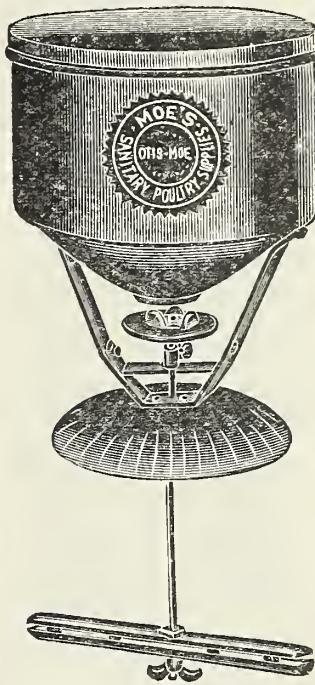
Made of heavy galvanized iron in three sizes. The No. 45 for baby chicks has a square bottom, the other sizes have round bottoms.

Moe's Grit and Shell Boxes

(Continued)

No. 45. Compartments two; each \$0.45.
No. 9. Compartments three; each \$1.00.
No. 90. Compartments four; each \$1.35.

Moe's Feeder and Exerciser



Rain and Snow Proof
Bird and Rat Proof

Fill the hopper once a week and let the chickens do the rest. Moe's Automatic Feeder will save more time, and save more feed, than any other fixture in a poultry yard.

It is adjustable to all sizes of flocks and to all sizes of chickens.

Increases egg production and fertility of the eggs.

Guaranteed to be rain and weather proof, rat and bird proof. Always ready to feed the chickens just as often and just as much as they want to eat, and at the same time makes them scratch and exercise in order to get it.

Insures maximum efficiency of your hens at a minimum of expense.

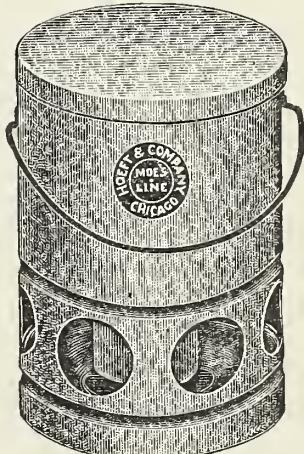
The lower bar is baited with corn. The bar revolves when the chickens peck at it, and releases some of the feed which falls on the deflector and is scattered in the litter to be scratched for by the fowls. Can be adjusted to feed any kind of grain in small or large quantities.

Made of heavy best quality galvanized iron in two sizes.

No. 52. Capacity 8 Quart; Height 22 in.; each \$1.45.

No. 53. Capacity ½ bushel; Height 28 in.; each \$2.00.

Moe's Pigeon Feeder



Pigeons are particular and fastidious feeders with a strong tendency to scatter and waste feed. Moe's round

Moe's Pigeon Feeders

(Continued)

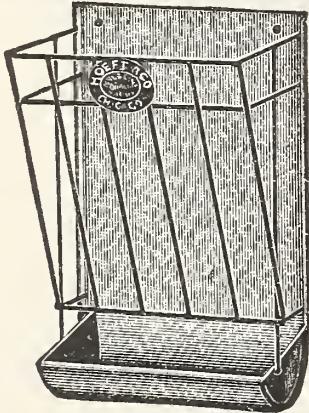
Pigeon feeder was especially designed to overcome this. Made of heavy galvanized iron, with feeding holes properly spaced all around the hopper. The hopper has a slanting bottom leading through large tube to the feeding bottom. This feeding trough or bottom is also made on a slant causing the birds to reach for the food and prevents them from billng the feed out and wasting it.

A practical, economical feeder which will soon save its cost.

No. 105.each \$1.50

No. 106.each \$1.50

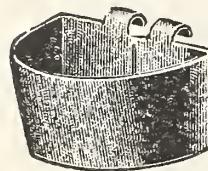
Moe's Poultry Vegetable Rack



Made of best quality galvanized iron, with galvanized wire rack. A practical device for holding roots, beets, cabbages, sprouted oats, clover, etc., and prevents scattering and wasting of the food.

The round bottom trough catches the small tender leaves, and is easily cleansed. The feed saved soon pays for the racks.

No. 44 Vegetable Rack....each \$0.75



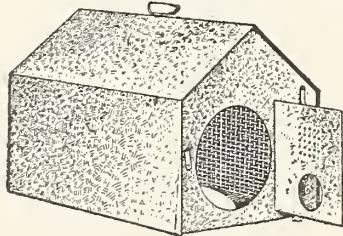
Moe's Feed and Water Cup

A practical and convenient cup made to hang on the side of exhibition coops. Capacity about 1

Pint.

Best grade galvanized iron. Hangs straight on the side of the coop. No. 61. Moe's Feed and Water Cup. each \$0.18.

Moe's Square Brood Coops



Shipped knocked down. Quickly set up.

Made of heavy, best quality, galvanized iron. The bottom is removable so the coop can be easily cleaned and kept in a sanitary condition.

Provides a perfect shelter for both the hen and chicks.

Has a combination door which can be adjusted.

1—To keep the hen in and permit the chicks their liberty.

2—To keep both hen and brood in, with perfect protection against weather, rats, cats and other animals; and yet allow ample ventilation.

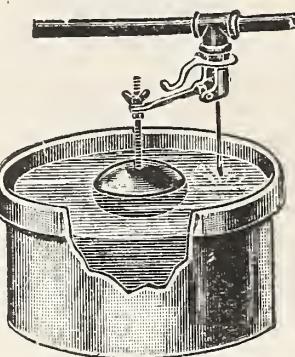
3—To give both hen and chicks their liberty.

Made collapsible to save freight and space. Quickly set up.

Size 16 inches wide, 23 inches long, 16 inches high.

No. 49. Price each \$2.50.

Moe's Automatic Poultry Fountain



A perfect automatic valve and float, to regulate the flow of water to a drinking dish. The valve mechanism is entirely of brass, nickel finish, with nothing about it to rust or clog up. Positive in action.

The valve can be attached to any iron water pipe, or to a barrel or tank, and insures a continuous, automatic supply of water, without waste.

Valve is threaded for $\frac{1}{4}$ in. iron pipe.

No. 30. Automatic Valve and float only. Price each 90c.

No. 31. Water pan only. Made of heavy galvanized iron. Diam 9 in., depth 5 in. Price each \$0.40.

No. 31-A—Automatic Valve and Pan complete, as illustrated. Price each \$1.25.

Moe's Never Fail Trap Nests

A simple, thoroughly practical, and inexpensive nest.

A good trap nest is the only way of ascertaining which are the profitable hens as it makes it possible to keep an accurate record of each hen's performance.

The door is so arranged that upon the hen's entrance the trap falls automatically, preventing her getting out, but allowing plenty of air and ample ventilation above and below the trap bar.

Moe's nests are easily kept clean as all parts are readily accessible. Made of heavy galvanized iron, all set up ready for use.

Packed one in a box. Made in two sizes. The No. 34 is for extra large birds.

No. 33. Size 12-in. square. Each \$1.45.

No. 34. Size 12" x 12" x 14 $\frac{1}{2}$ ". Each \$2.00.

Moe's Trap Nest Front

A new inexpensive and useful device which meets a popular demand and has proven to be a big seller.

Made of best quality galvanized iron, simple in operation, with no small loose parts to get out of order.

Can be easily fitted to any orange or ordinary wood box or coop and gives the breeder the opportunity to use a size nest best adaptable to his birds, with a uniform automatic trap feature suitable for any breed of fowl.

It is the same front used on our trap nests shown above and while it effectively traps the hen, yet allows ample ventilation.

Door is hinged, making it easy to remove the hen or clean the nest. Made in one size. Dimensions 11 ins. wide by 12 ins. high.

No. 63. Trap nest front....each \$.50

Moe's Coal Burning Colony Brooder

Moe's Coal Burning Colony Brooder is a thoroughly reliable, highly efficient and practical brooder or hover.

Simple in construction, no complicated or unnecessary parts. Provides an even, continuous, and correct temperature at all times. Gives the

chickens an abundance of pure fresh air, with ample room for them to get sufficient exercise.

Fine healthy, vigorous chicks raised to early maturity, with little or no loss.

Plenty of fresh air with no danger of getting chilled.

The Stove has a large deep fire pot, burns most any kind of fuel, but we recommend hard coal in chestnut size. It is filled from the top and takes 3 in. smoke pipe.

Has a large ash pit easy of access. The bottom of the ash pit is raised from the floor and further protected with a pad of asbestos.

Keeps a steady fire through the night in the coldest weather. The grate is in two sections, rocker type, center dump, making it easy to keep clean, bright fire at all times.

Automatic control. The fire is automatically regulated by twin thermostats which open and close the check draft on top of stove. Easily adjusted to any desired degree of heat, and after adjustment at the beginning of the season needs no further attention.

The Hover or Deflector is of heavy galvanized iron, mounted on a cast iron ring, complete with pulleys and rope. Easily raised and lowered, and the stove can also be reached and attended to through a round door in the deflector. Shipped in sections in a compact crate and quickly put together.

Moe's Brooders are strong and substantial in every detail, but still not too heavy or cumbersome, so they can be readily moved from one colony house to another. Easier to move the brooder than the chicks.

No. 112. Diameter of Hover 42 in.; capacity chicks 500; height of stove 18 in.; diameter of fire pot 10 $\frac{1}{2}$ in.; shipping wt. with Hover 80 lbs.; price each \$22.00.

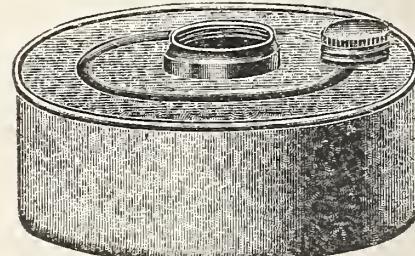
No. 113. Diameter of Hover 52 in.; capacity chicks 1000; height of stove 22 in.; diameter of fire pot 11 $\frac{1}{2}$ in.; shipping wt. with Hover 95 lbs.; price each \$27.00.

No. 114 Smoke Pipe. Diameter 3 in. Black sheet iron, in 2 ft. lengths. Price per length \$0.18.

No. 115. Corrugated Elbows. Diameter 3 in. black. Price each \$0.18.

No. 117. Chimney Collars. Size 6 x 3 in. Price each \$0.08.

Moe's Lamp Bowls

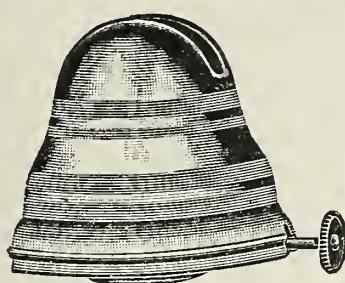


Heavy galvanized iron bowls or founts for Incubators, Brooders and Fountain Heaters. Made in three sizes. The two larger ones are strongly braced and re-inforced on the inside; making the top and bottom perfectly rigid. No give or spring to the top which is a common fault with ordinary bowls.

No. 100. Lamp bowl. Diameter 6" Height 1 $\frac{1}{2}$ ". Has a side handle. Takes size 1 burner. This is the same bowl as used in our No. 10 Fountain Heater. Price each \$0.50.

No. 101. Lamp Bowl, Diameter 7 in. Height 2 $\frac{1}{2}$ in. Takes size 2 burner, and size 2 chimney. Price each \$0.60.

No. 102. Lamp Bowl. Diameter 8 in. Height 2 $\frac{3}{4}$ in. Takes size 3 burner and size 3 chimney. Price each \$0.75.

"Zenith" Lamp Burners

A "No Chimney" burner for Incubators, Brooders, Fountain Heaters, etc. Perfect combustion without a chimney. When used with our lamp fount the No. 1 burner is suitable for a lamp box 7 in. high, and the No. 2 burner for a lamp box 9 in. high.

No. 200. Size 1; diameter of thread $\frac{7}{8}$ "; diameter of cone $2\frac{5}{8}$ "; size wick $\frac{5}{8}$ "; each \$0.50.

No. 201. Size 2; diameter of thread $\frac{1}{2}$ "; diameter of cone 3"; size wick $\frac{5}{8}$ "; each \$0.65.

Reducing Collars

Made of brass to reduce size of burner on oil fount.

No. 204. Reduce burner from size 2 to 1 each \$0.10.

No. 205. Reduce burner from size 3 to 2, each \$0.15.

Metal Chimneys

For Incubators and Brooders. Made of galvanized sheet steel, with round mica windows. The mica can be easily replaced if it should accidentally be broken. In two sizes.

No. 103. Metal chimney. Height 6 in. Fits size 1 and 2 burners. Price each \$0.30.

No. 104. Metal Chimney. Height 6 in. Fits size 3 burner. Price each \$0.30.

"Sun" Hinged Lamp Burners

Used extensively by Incubator and Brooder manufacturers. So designed that perfect combustion is insured. Easily cleaned and trimmed.

No. 202. Size 2; diameter of thread $13\frac{1}{16}$ "; diameter of cone $2\frac{7}{8}$ "; size wick $\frac{7}{8}$ "; each \$0.45.

No. 203. Size 30; diameter of thread $1\frac{3}{4}$ "; diameter of cone $3\frac{9}{16}$ "; size wick $1\frac{1}{2}$ "; each 80c.

Expanding Screws

Made of brass, to increase size of burner on oil fount.

No. 206. Increase burner from size 1 to 3; each \$0.10.

No. 207. Increase burner from size 2 to 3; each \$0.15.

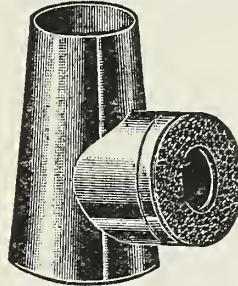
Moe's High Grade Red Felt Lamp Wicks

A good wick is very important, especially when it is in continuous use as on a brooder or incubator lamp. Our wicks are special high grade red felt, and a big improvement over the old style loosely woven cotton wicks, which often get clogged in the burner shaft. No loose threads to burn uneven and smoke.

No. 208. Width $\frac{5}{8}$ "; for burner No. 1; per dozen \$0.25.

No. 209. Width $\frac{7}{8}$ "; for burner No. 2; per dozen \$0.36.

No. 210. Width $1\frac{1}{2}$ "; for burner No. 3; dozen \$0.48.

Moe's Egg Tester

To test the fertility of eggs during the period of incubation. Used with an ordinary lamp (No. 2 burner) in dark room.

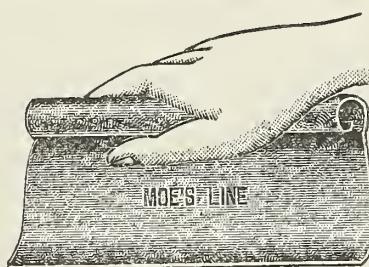
It will illuminate the interior of the egg, and show if the chick is alive, and also shows the size of air cell in the egg. Made in one size only.

No. 48. Moe's Egg Tester each \$0.30.

Moe's Twentieth Century Egg Tester

A simple efficient device for testing table eggs. Made of heavy card board, with glass mirror in the bottom. Holds three eggs at a time. Size 6 in. long, 3 in. wide, $2\frac{1}{2}$ in. high.

No. 62. Egg Tester....each \$0.12

Moe's Scraper and Cleaner

Made of heavy galvanized iron, and is just the thing for cleaning out brood coops, nests and dropping boards. It gets into the corners, which are often overlooked. Length 10 in.

No. 47. Scraper and Cleaner each \$0.20.

Moe's Self-Locking Leg Bands

A seal band that requires no sealer. Locked simply by pushing it together. Made of a bright nickel-colored metal that will not rust or corrode. Manufactured in eight sizes as shown below. Numbered consecutively with embossed numbers from 1 to 5,000. Illustrations are full size.

Size 1—Pigeons.

Size 2—Hamburg and Polish females.

Size 3—Hamburg and Polish males.

Size 4—Mediterranean females.

Size 5—Mediterranean males.

Size 6—American females.

Size 7—American males.

Size 8—Asiatics and Turkeys.

Instructions

Bend the band around one of your fingers so that it is perfectly round and that ends meet. Then place it around the leg of the bird and lock by pushing the ends together.

Be sure that ends meet properly so that the band will lock as soon as the ends are pushed together.

No. 120 Moe's Self-Locking Leg Bands**PRICE LIST**

Always give size and numbers when ordering.

12 bands, any size	\$0.15
25 bands, any size .....	.25
50 bands, any size.....	.45
100 bands, any size .....	.75
500 bands, any size	3.50
1000 bands, any size.....	6.00

Moe's Key Ring Colored Leg Bands

Made of Celluloid in six sizes and ten colors.

POULTRY SIZES

Stock Numbers 91, 92, 93, 94.	
12 bands	\$0.15
25 bands .....	.30
50 bands .....	.50
100 bands .....	.75
500 bands	3.60
1000 bands	7.00

PIGEON AND BABY CHICK SIZES**Stock Numbers 95, 96.**

12 bands	\$0.10
25 bands .....	.20
50 bands .....	.35
100 bands .....	.50
500 bands	2.25
1000 bands	4.00

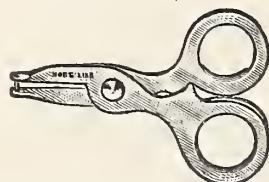
Moe's Aluminum Leg Bands

Made of sheet aluminum, with large raised numbers, easy to read from a distance. Adjustable for any size fowl. Accurately made and quickly applied. Packed in paper cartons of 12, 25, 50 and 100 bands each. Numbered from one up.

Price List**No. 130—Adjustable Aluminum Leg Bands**

12 bands	\$0.15
25 bands .....	.25
50 bands .....	.45
100 bands .....	.75
500 bands	3.50
1000 bands	6.00

Moe's "Ideal" Poultry Punch



A new improved punch, scissors type. Works easily, cuts clean and does not pinch the foot.

Convenient to carry in vest pocket, and the lower end is an excellent cigar cutter.

Nickel Plated Finish. Length 3½ in.

No. 39. Ideal Punch. Price each \$0.50.

Moe's Poultry Punch

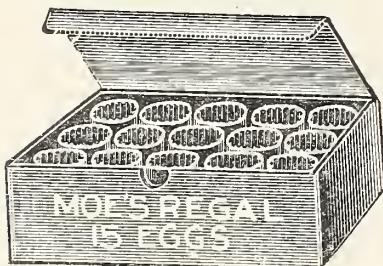


A popular and practical punch for marking baby chicks.

Punches a clean hole in the web between the toes, and will not bruise the foot. Guaranteed to work perfectly.

No. 38. Moe's Poultry Punch, each \$0.25.

Moe's Regal Egg Carriers



This "Safety First" box is adapted to either Parcel Post or Express use and can be used time after time. We stand right behind this box and believe it to be the safest and most durable egg carrier on the market. It is so strong that it will more than bear your own weight, and so safe that when filled with eggs, it will withstand the severest jolt without breaking an egg. Eggs have been shipped in this box and taken from a train going at 50 miles an hour by the Hupp Automatic Mail Exchange and then placed in an incubator which resulted in a 75 per cent hatch. We have many testimonials from breeders who will use no other box for shipping fancy eggs. Manufactured of strong corrugated fibre board in four sizes:

No. 14. Capacity 15 Eggs; Dimensions 4x 7x11 in.; Packed 12 in a box; Ship. Weight 15 lbs.; Each \$0.20, Dozen \$2.40.

No. 15. Capacity 30 Eggs; Dimensions 8x 7x11 in.; Packed 6 in a box; Ship. Weight 14 lbs.; Each \$0.40, Dozen \$4.80.

No. 16. Capacity 50 Eggs; Dimensions 8x7x11 in.; Packed 6 in a box; Ship. Weight 13 lbs.; Each \$0.70, Dozen \$8.40.

No. 17. Capacity 100 Eggs; Dimensions 14x12x12 in.; Packed 2 in a box; Ship. Weight 15 lbs.; Each \$1.25, Dozen \$15.00.

Lice Repelling White Nest Egg

A white sanitary, lice repelling nest egg of superior quality and appearance. They are unsurpassed as a disinfectant in the poultry house and aid greatly in keeping the nest and the hen free from vermin.

Closely imitate a real egg in appearance, and contain a powerful disinfectant. Some breeders recommend placing one in a corner of each nest under the straw.

Soon pay for themselves in increased yield.

Packed 12 in a carton, and 1 Gross in a box.

Lice Repelling Nest Eggs 5c ea.; Per Dozen 50c.

China Nest Eggs

Made of White porcelain, natural in appearance, and uniform in size. Will not easily break.

They induce the hen to lay where she should—in the nests provided for her.

Packed 12 in a carton. 1 Gross in a box.

China Nest Eggs ea. 5c. Per Dozen 35c.

Wire Hens Nests

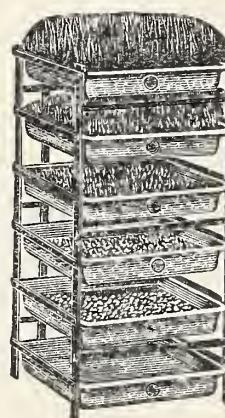
Made of coppered steel wire, with flat steel ribs, and a heavy top wire, all copper finish.

Provides a clean, sanitary nest for the setting hen. Easily kept free from vermin. Intended to fasten to wall with nails or screwhooks. Can be readily changed and filled with fresh straw or hay. Made in two sizes.

No. 300. Dia. 13 in.; Depth 6½ in.; Per Doz. \$2.20.

No. 301. Dia. 14 in.; Depth 7 in.; Per Doz. \$2.80.

Moe's Oat Sprouter



Made entirely of metal. Strong and rigid.

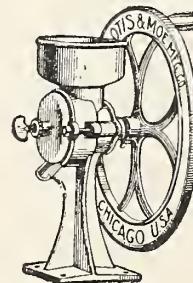
Provides the very necessary green feed at all seasons. Healthy chickens and more eggs.

The frame is of steel, well braced and neatly painted. Has six heavy galvanized iron pans. Five of the pans have perforated bottoms to secure the proper drainage, and the bottom pan is solid to hold the drippings. Pans are interchangeable. Sectional frame can be quickly taken apart and stored in a small space.

Total height of frame 3 ft. Size of pans 16 in. by 18 in.

No. 110 Moe's Oat Sprouter Each \$6.00

Mann's New Model Bone Cutters



The easiest running and the most rapid, green bone cutting machine made. Has a perfect automatic and self governing feed. Adjustable to cut coarse or fine, fast or slow. The hinged open cylinder is easy to clean and adjust without taking the machine apart. The bones are dropped in the open cylinder, no careful feeding or packing necessary. The machine regulates itself to the resistance of various size bones.

The special steel knives keep their keen edge a long time, but can be easily ground sharp when needed.

No. 230 Style 5C. With crank handle. Diam. of cylinder 6 in. Shipping weight 35 lbs. Each \$9.50

No. 231. Style 5B. With balance wheel. Diam. of cylinder 6 in. Shipping weight 60 lbs. Each \$12.50

No. 232. Style 5BM. With balance wheel and mounted on heavy iron

stand. Diam. of cylinder 6 in. Shipping weight 85 lbs. Each \$16.00

No. 233. Style 7. Hand power only. With balance wheel and mounted on heavy iron stand. Diam. of cylinder 7½ in. Shipping weight 107 lbs. Each \$18.50

No. 234. Style 7½. Hand or power. Tight and loose pulleys. Diam. 11½ in. by 2½ in. face. Diam. of cylinder 7½ in. Capacity 50 to 100 lbs. of bone per hour. Horse power required ½ to 1. Shipping weight 150 lbs. Each \$25.00

Moe's Grinding Mills

Moe's Improved Grinding Mills for all kinds of grain, dry bones, shells, root, bark, salt, etc. Adjustable by a thumb screw to grind coarse or fine. Just the thing for poultry, and also makes an excellent all around family mill.

The Power Mill has ball bearing end thrust, and heavy 6 in. cone burrs of steel alloy. Capacity five to eight bushels per hour.

Size of pulley: Diameter 8½ in. by 4 in. face. Use 3½ in. belting. Requires one or two horse power. Also has a 12 in. sheet metal hopper which is removable. All neatly painted and finished.

No. 221. Size 1. Hand mill, 12 in. balance wheel. Each \$4.50

No. 222. Size 2. Hand Mill, 16 in. balance wheel. Each \$8.00

No. 223. Size 3. Hand Mill, 19 in. balance wheel. Each \$11.50

No. 224. Size 4. Power Mill, 8½x4 in. pulley. Each \$15.00

Moe's Rapid Tool Grinders

For grinding and sharpening all kinds of edge tools, cutlery, etc. Will do in a few minutes the work it would require hours to do on the old fashioned grind stone.

Moe's tool grinders are carefully made throughout, with machine cut, smooth running gears. Do not confuse them with light weight inferior grinders on the market. Fitted with high grade vitrified corundum wheels, and have an adjustable tool rest. Quickly clamped to bench or table. Black enamel finish. Packed 1 in a carton.

No. 302. Size of Wheel 4 in. x 1 in.; Price Each \$4.00

No. 303. Size of Wheel 5 in. x 1 in. Price Each \$5.40

No. 304. Size of Wheel 6 in. x 1 in.; Price Each \$8.00

No. 305. Household Grinder. With 4x¾ in. wheel. The same construction as above, but with plain one piece tool rest. Each \$2.25

Moe's Line of Rabbit Supplies

Made of best quality galvanized iron, with galvanized wire rack.

The most economical way of feeding hay, alfalfa, clover, etc.

Effectively prevents scattering and wasting of food.

The round bottom trough catches the small tender leaves, and is easily cleaned. The saving soon pays for the rack.

No. 44. Vegetable Rack Each \$0.75.

Moe's Feed and Water Dish. Made of heavy galvanized iron, with roll rim or top flange, which prevents waste of food. Diameter 5½ in. Height 2½ in. It is held securely to the floor by a simple locking device, so that the dish cannot be tipped over.

Easily removed for cleaning.

No. 46. Feed and Water Dish Each \$0.20

Moe's Feed and Water Cup. A practical convenient cup to hang on the side of hutch or exhibition cage. Best grade galvanized iron.

Capacity about one pint. A great favorite with many breeders.

No. 61. Feed and Water Cup. Each \$0.18

Moe's Hutch Scraper and Cleaner. Made of heavy galvanized iron, no wood handle to get loose.

The roll rim affords an easy grip to the hand.

Just the thing to get into the corners of a hutch when cleaning.

Length 10 in.

No. 47. Scraper and Cleaner Each \$0.20

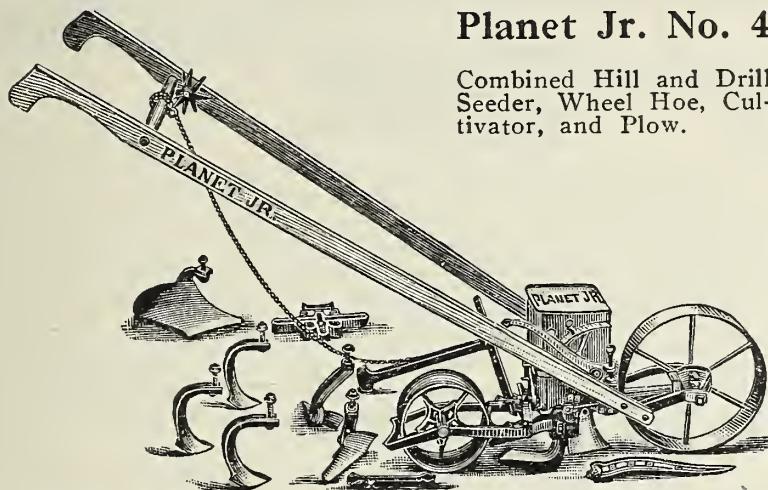
Planet Jr. Garden Tools

Prices upon application

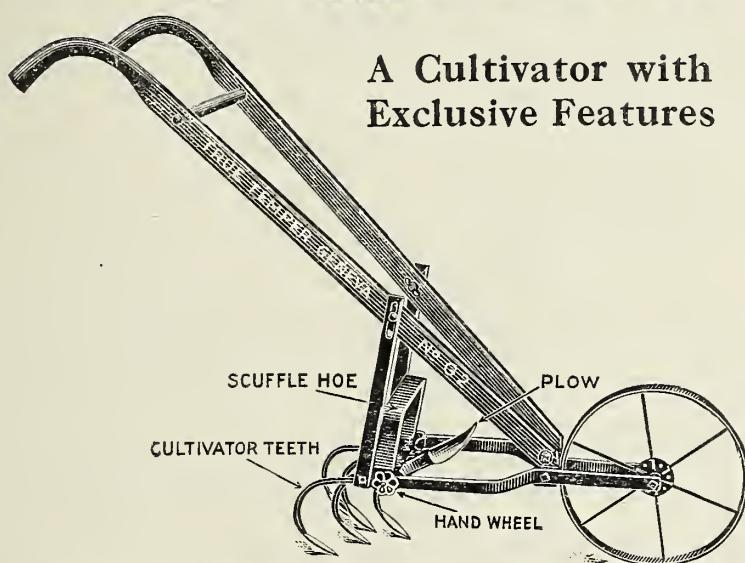
Space will permit our showing and describing only a few Planet Jr. Tools, but we will send to all who ask for it a fully illustrated catalogue of Planet Jr. Garden Implements. We deliver at depot or express office at prices given herein.

Planet Jr. No. 4

Combined Hill and Drill Seeder, Wheel Hoe, Cultivator, and Plow.



A Cultivator with Exclusive Features



THE TRUE TEMPER GENEVA, No. G 2, is recognized everywhere as the only real Quick-Adjustable Cultivator on the market to-day. It has a Scuffle Hoe, a Plow and five Cultivator Teeth, all permanently attached to the frame. Any of these tools may be securely locked into working position by a few turns of the Hand Wheel. No lost attachments or wrenches to look for.

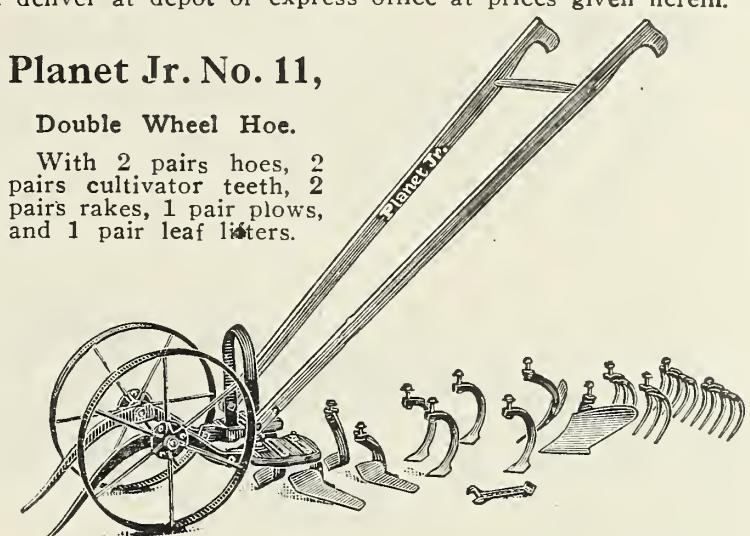
Every gardener knows and appreciates the value of time—that is one reason why this Cultivator is such a favorite.

THE TRUE TEMPER GENEVA, No. G 2, has steel-forged tools, well selected oak handles, bent. Has a 14-inch Steel wheel with 1 1/4 inch Tire. It is nicely finished in colors and varnished. Weight complete, 20 pounds. Metal parts packed in crate, handles wired in pairs and papered.

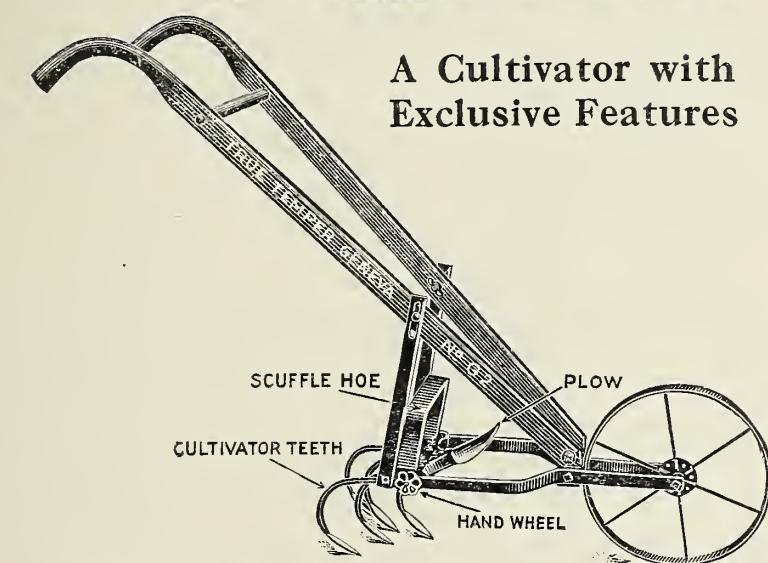
Planet Jr. No. 11,

Double Wheel Hoe.

With 2 pairs hoes, 2 pairs cultivator teeth, 2 pairs rakes, 1 pair plows, and 1 pair leaf listers.



Efficient--Inexpensive
-Easy to Operate



THE TRUE TEMPER FAIRY will keep your garden free from weeds and keep the soil in just the right condition to make the plants grow.

It will be a delight for your children to care for the garden with a Fairy—it runs so easily.

It is not intended for plowing, but for the otherwise tedious work of hoeing.

The Fairy has a strong steel frame with the best selected ash handles, easily adjusted for man or boy.

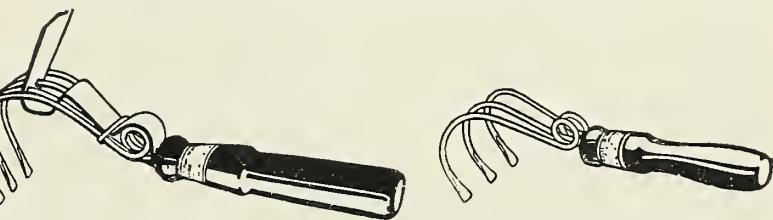
The Five Cultivator Teeth may be adjusted in many ways, as each tooth is bolted on separately. They are forged from high-grade tool steel—hardened.

It will cultivate rows from six to twelve inches apart.

Please note shape of Cultivator Teeth—they are made to cultivate the easy way.

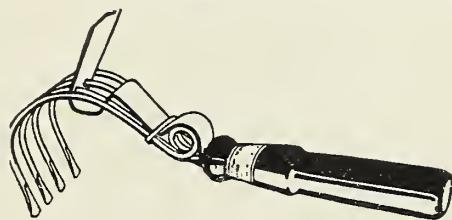
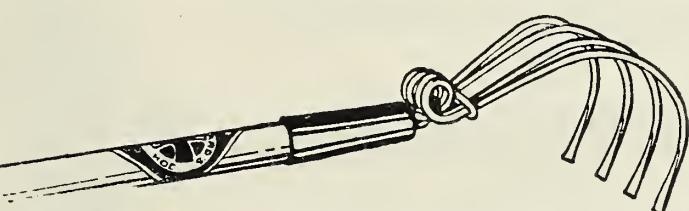
It has a 14-inch steel oval-spoke wheel. Machine is handsomely finished in crimson, black and meadow green and varnished. Somehow its style appeals to everybody.

Packed one machine per bundle, knocked down. Weight 13 lbs. Easily carried in one hand.



Magic Weeders and Cultivators

MAGIC WEEDER—One of the best hand tools, saving time and labor. It is made in different styles as shown



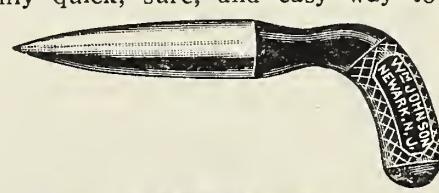
by the cuts and can be used both for cutting and digging out weeds, as well as for making rows, if desired.

No. 1. 3 Tines, 20c.

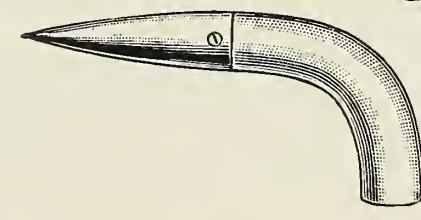
No. 2. 4 Tines, 30c.

No. 3. 4 Tines, Handle 4 ft. 75c.

DANDELION EXTERMINATOR, LIGHTNING. The only quick, sure, and easy way to rid your lawn of Dandelions and keep it free. \$1.50 each.



DIBBLE—All iron, good Tool. 40c.



DIBBLE—Wood Handle, steel point, best made. 60c.

EDGING KNIFE For cutting edges of walks and beds. \$1.00.

FORKS—Digging or spading. \$1.25 to \$2.00.

Baskets, Wire Hanging

8 in.	\$0.20	18 in. ....	.65
10 in. ....	.25	20 in. ....	.80
12 in. ....	.35	22 in.	1.00
14 in. ....	.40	24 in.	1.25
16 in. ....	.50		

BRUSHES, SCRUB. All kinds of vegetable cleaning, 15c each.

CANES. 7 to 9 feet long, for plant stakes. \$1.00-\$2.00.

CANES. Japanese, Green dyed, 3 1/2 feet. \$1.00-\$1.75.



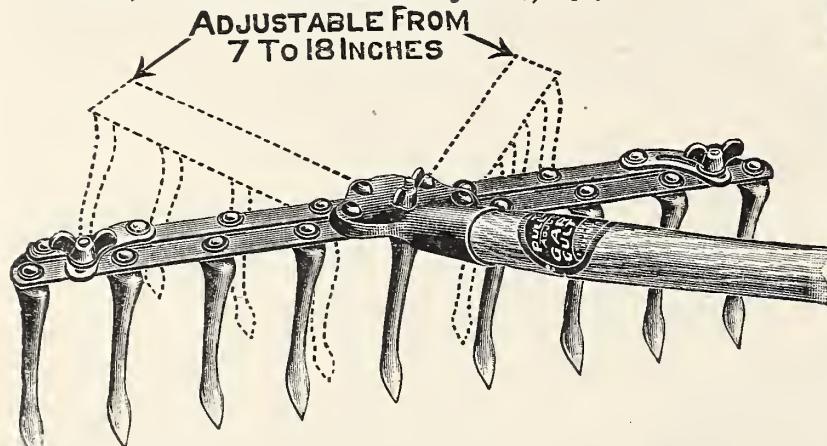
ASPARAGUS KNIFE—Made of good material, 40c each.

Horticultural Tools and Sundries



FORK HAND WEEDING—Small, 25c; large 40c.

GLAZING POINTS—Peerless; best made; per 1,000, 75c.
GLAZING POINTS—Zink City; Lb. 60c.
GRASS HOOKS—Adjustable, best made, 75c.
GRASS SHEARS—Best steel, \$1.00; common grade, 50c.
GUNS, INSECT POWDER. Cyclone, 20c.
GUNS, INSECT POWDER. Jumbo, 35c.



CULTIVATOR, HAND GARDEN. The Prongs are square spring steel bent cornerwise, with forged shovels at ends. The Socket Frame and Clamping Bar are made of toughest malleable. Handle best grade of White Ash: 4 feet long 9 Tooth Cultivator, \$1.50; 5 Tooth Cultivator, 75c.

LABELS, WOOD. For pots, painted.

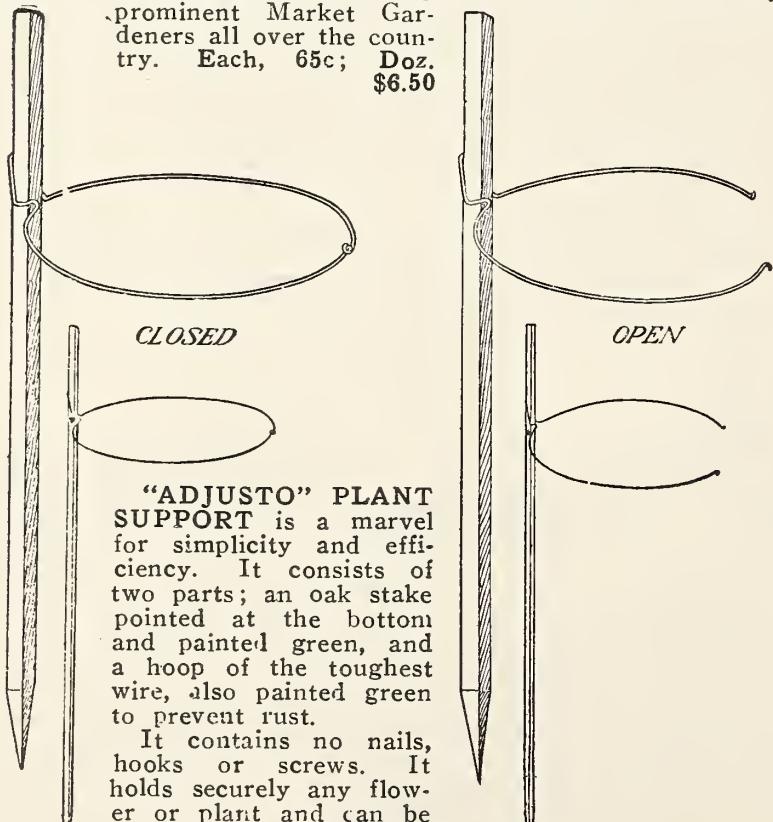
4 x $\frac{5}{8}$ -inch, per 100, 25c; per 1,000, \$2.00.
 5 x $\frac{5}{8}$ -inch, per 100, 30c; per 1,000, \$2.50.
 6 x $\frac{5}{8}$ -inch, per 100, 40c; per 1,000, \$3.00.
 8 x $\frac{3}{4}$ -inch, per 100, \$1.00; per 1,000, \$8.50.
 10 x $\frac{3}{4}$ -inch, per 100, \$1.25; per 1,000, \$11.00.
 12 x $1\frac{1}{8}$ -inch, per 100, \$1.50; per 1,000, \$13.50.

LABELS. Tree, notched, copper wired, per 100, 40c; per 1,000, \$3.00.

LABELS. Tree, copper, No. 1, per 100, \$2.00.

LABELS. Tree, copper, No. 2, per 100, \$2.50.

LAMP DEFIANCE—FUMIGATING. (For use in greenhouses.) It burns kerosene. It is made of heavy tin throughout. The oil fount is drawn in one piece so it cannot leak. The cup that holds the Nicoticide (or similar preparation) is also drawn in one piece and can not leak. No glass about the lamp to be broken. Used by prominent Market Gardeners all over the country. Each, 65c; Doz. \$6.50



"ADJUSTO" PLANT SUPPORT is a marvel for simplicity and efficiency. It consists of two parts; an oak stake pointed at the bottom and painted green, and a hoop of the toughest wire, also painted green to prevent rust.

It contains no nails, hooks or screws. It holds securely any flower or plant and can be adjusted to any height to conform with the plant's growth.

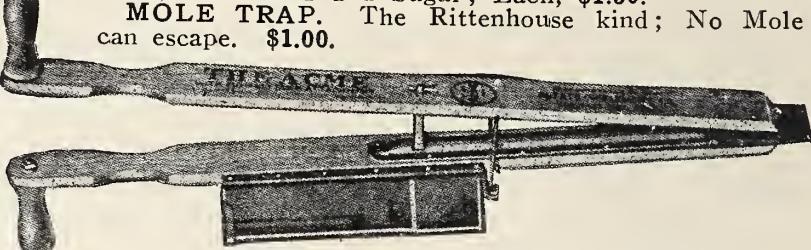
As permanent equipment which can be used year after year, they are dirt cheap. 3 ft., 15c each; \$1.75 doz. 18 in., 8c each; 85c doz. 4 ft., 18c each; \$2.00 doz.

24 in., 10c each; \$1.00 doz. 5 ft., 20c each; \$2.25 doz.

SEED SOWER—LITTLE GIANT. For sowing wheat, oats, rye, rice, flax, grass seed, clover seed, etc., in fact, any kind of seed broadcast. They will save their cost almost daily in saving of seed, to say nothing about saving of time and more even distribution, which will have a great effect on the crop. It weighs but three pounds. \$2.25 each.

CORN PLANTER. A real necessity in replanting Corn, both Field and Sugar; Each, \$1.50.

MOLE TRAP. The Rittenhouse kind; No Mole can escape. \$1.00.



The Dunham Water-Weight Roller, can be made as heavy or as light as desired by simply putting in the right amount of water. For storing away or for moving it can be emptied entirely and is light and easy to handle. All sizes always on hand. Get special prices before buying elsewhere.

PRUNING KNIVES, TREE. The work that this knife will do is wonderful. Five or six trees can be trimmed with it while one is being done with other knives. It will cut any green limb from the very smallest to one that is one and one-quarter inches in diameter. Any length handle can be used, giving the great advantage of standing on the ground to do the work. 90c to \$2.00.

PRUNING SHEARS, HAND. California Pattern—9-inch, 75c; French—8 inch, \$1.50; Wiss Heavy—fine quality, 9-inch, \$2.75; Ladies' Hand, \$1.25.

PUTTY, TWEMLOW'S LIQUID GLAZING. For bedding glass in sash. One gallon will cover about 600 running feet (one side.) Gallon, \$2.50. Mastica—For glazing greenhouses. Gallon, \$2.25.

PUTTY BULB. A useful tool for applying liquid putty and glazing greenhouses. \$1.35.

RAFFIA, NATURAL. The best tying material for plants, also used for making hats, baskets, etc. Per Lb., 50c; 5 Lbs., \$2.00.

RAT EXTERMINATOR. Guaranteed to kill them and leaves no odor. Price 25c.

BLACK GLAZING PUTTY is different from all putties in every respect. **BLACK GLAZING PUTTY** is made of ground asbestos combined with the most durable and elastic gums on the market. That **BLACK GLAZING PUTTY** contains asbestos explains the "why" of its wonderful lasting qualities. Asbestos as is shown by its use in gas grates or for cold storage insulation work, is unaffected by intense heat or extreme cold. **BLACK GLAZING PUTTY** has the same heat and cold resisting qualities. It will never harden. **BLACK GLAZING PUTTY** will always remain in a rubber-like condition.

BLACK GLAZING PUTTY gives with the vibration of the house saving in cracked or broken glass. Further, glass set with **BLACK GLAZING PUTTY** is easily removed when desired.

BLACK GLAZING PUTTY will not run in hot weather nor will it puddle when being applied. It flows from the bulb of our special Putty Machine perfectly in a pencil-thick stream. Guaranteed to do as represented or money refunded. Prices

$\frac{1}{2}$ Gal. \$1.00; $2\frac{1}{2}$ Gals. \$1.70 a Gal.; 10 Gals. \$1.45 a Gal;

30 Gals. \$1.25 a Gal; 60 Gals. \$1.05 a Gal.

PUTTY MACHINE. Made of good steel used by simply strapping to the underside of the arm. \$3.50 new style 6.50.



TROWELS. Transplanting, 25c.
 Transplanting Hoe, 50c.

Flower, 15c. Garden, one of the best. 35c.

SASH, HOTBED, UNGLAZED. Made from strictly clear cypress lumber. White lead used on the tendons, and iron dowel pins at the corners. 4x6 ft., 5 rows, 8-inch glass. \$3.25 each.

We also carry in stock regulation size Sash Glazed second hand but good. \$1.00 to \$3.50 each.

THERMOMETERS. We carry the best make of Incubator or Brooder Thermometers. 75—\$1.50 each.

HUMUS. A wonderful soil builder. Price bag about 50 Lbs. \$1.00.

SHOES WOODEN. We carry all sizes and shapes constantly. \$1.00 to \$1.50 per pair.

Langs. Allows use of hands, 25c. Christy Garden Weeder 15c.

TWINE. For tying vegetables. All grades always carried.

WEEDERS. Excelsior. For weeding seed beds. 15c.

Flower Pots and Saucers

Our Flower Pots and Saucers are standard make, of extra fine finish, and bear shipping well. No charge for packing.

Flower Pots

Size	Ea.	Doz.	Size	Ea.	Doz.	Size	Ea.	Doz.
2 inch	.3c	30c	5 inch	.8c	\$0.75	10 inch	.60	\$6.50
2½ inch	.3c	35c	6 inch	.12c	\$1.20	12 inch	1.00	\$11.00
3 inch	.4c	40c	7 inch	.18c	\$1.75	14 inch	1.75	\$12.00
3½ inch	.5c	45c	8 inch	.25c	\$2.75	16 inch	2.50	\$25.00
4 inch	.6c	50c	9 inch	.40c	\$4.00			

Flower Pot Saucers

Size	Ea.	Doz.	Size	Ea.	Doz.	Size	Ea.	Doz.
4 inch	.4c	35c	7 inch	.10c	\$1.00	10 inch	20c	\$2.00
5 inch	.5c	50c	8 inch	.12c	\$1.20	12 inch	25c	\$2.75
6 inch	.6c	60c	9 inch	.15c	\$1.50			

Azalea Flower Pots

Size	Each	Doz.	Size	Each	Doz.	Size	Each	Doz.
5 inch	.8c	75c	7 inch	.18c	\$1.75	10 inch	.60c	\$6.00
6 inch	.12c	\$1.20	8 inch	.25c	\$2.75	12 inch	1.00	\$11.00

Round Seed Pans

These are the same style as our standard Pots, but not so deep, and are suitable for Cacti, Begonias, Tulips, etc.

Size	Each	Doz.	Size	Each	Doz.	Size	Each	Doz.
5 inch	.8c	75c	7 inch	.18c	\$1.75	10 inch	.60c	\$6.00
6 inch	.12c	\$1.20	8 inch	.25c	\$2.75	12 inch	1.00	\$11.00

Fern Pans

These Pans are especially adapted for linings to Porcelain and Silver Fern Pans.

Size	Each	Doz.	Size	Each	Doz.	Size	Each	Doz.
5½ inch	.10c	\$1.00	7 inch	.15c	\$1.50			
6¼ inch	.12c	\$1.20	8 inch	.20c	\$2.00			

American Plant Tubs

An excellent tub, cheap, neat and durable. Made from ¾-inch Cypress, with iron handles and feet, 3 iron hoops, and 2 coats of green paint.

	diameter	high		diameter	high		
No. 1	11½ inches	11½ inches	\$1.00	No. 5	19 inches	18 inches	\$3.00
No. 2	13½ inches	11¼ inches	1.25	No. 6	22 inches	19½ inches	4.00
No. 3	14¾ inches	14 inches	1.65	No. 7	25 inches	22 inches	5.00
No. 4	16 inches	15 inches	2.00	No. 8	26 inches	23¾ inches	6.00

Best Ever Flower Boxes

Designed with ventilating subway, neat, strong, with weatherproof finish. This box is attractive in appearance, durable, being made of heavy galvanized metal.

The heavy roll edge adds greatly to the appearance and a device inside the box permits the application of water to the plants without any untidiness which frequently is the case from watering the plants by sprinkling. All boxes 7½ or 7½ in. wide at the bottom, 6 in. deep, width at top over curled flange 8¾ in.

Prices:—18 in. \$1.10; 24 in. \$1.25; 30 in. \$1.60; 36 in. \$2.00; 48 in. \$2.90.

FERTILIZERS

Ask for special prices on ton lots.

Fertilizers and warfare bear a most intimate and most sensitive relationship. War decreases the supply of fertilizing materials and at the same time increases the importance of their use. Good production takes on a patriotic aspect. The farmers' tools of production become of importance second only to the needs of the army itself.

Every ton of manure and straw should be saved and hauled to the field. Fertilizers should be ordered early and used on all intensively grown crops. They mean bigger crops and save labor at a time when it is scarce, in that they make every acre return its utmost for the work expended upon it. All Fertilizers delivered free of charge, and prices quoted subject to marked change without notice. If large quantities are wanted ask for special prices.

ASHES, HARD WOOD. Indispensable for all crops requiring potash: very beneficial for lawns. Apply one to two tons per acre. Per Lb. 5c; 50 Lbs. 90c; 100 Lbs. \$1.50.

BLOOD DRIED. For flowering plants. Its chief element being nitrogen. Per Lb. 15c; 25 Lbs. \$1.85; 100 Lbs. \$6.00.

BONE. PURE GROUND. This is ground very fine, decomposes more rapidly in the soil than coarser grades, and is therefore more quickly beneficial. Per Lb. 10c; 10 Lbs. 70c; 25 Lbs. \$1.25; 50 Lbs. 225; bag 125 Lbs. \$4.25.

EXCELSIOR PLANT FOOD. For Ferns and Other House Plants. An odorless preparation combining in a concentrated and soluble form every element required in plants and flowers to produce vigorous growth and a profusion of flowers. It is immediately soluble in water, and available to plant life from the moment of application. Small Pkg. 15c; Medium Pkg. 25c; Large Pkg. 35c; 5 Lbs. \$1.50.

HUMUS. That portion of soil formed by decomposition of animal and vegetable matter. A valuable constituent of soil. Price per bag. Per Lb. 5c; 100 Lbs. \$2.00.

LAND PLASTER. If applied as a top dressing for grass or clover crops in the spring, it greatly increases the growth and yield of same; sprinkled in stables, poultry houses and on manure piles, it will prevent ammonia from vaporizing thereby greatly increasing the value of farm manure. Per Lb. 5c; 100 Lbs. \$1.50.

LIMESTONE AGRICULTURAL. Destroys Soil Acidity—Loosens Up Clay Soils—Tightens Up Sandy Soils. Puts soils in better condition. Apply at the rate of 2,000 to 4,000 lbs. per acre, and may be applied at any season of the year. Per Pkg. 10c; 100 Lb. bag \$1.25.

MURIATE OF POTASH. One of the most necessary fertilizers. This fertilizer is entirely imported. Lb. 15c; 25 Lbs. \$2.25; 100 Lbs. \$8.00.

NITRATE OF SODA. Contains about 16 per cent. nitrogen, equal to 20 per cent. ammonia. If plants are slow in taking hold a small quantity will be found beneficial. Per Lb. 15c; 10 Lbs. \$1.15; 25 Lbs. \$2.00; 100 Lbs. \$7.00.

ACID PHOSPHATE 16%. Analysis—Available Phos. Acid, 16 per cent.; Insoluble, 1 per cent. Per Lb. 5c; 25 Lbs. \$1.00; bag 125 Lbs. \$2.50.

Invaluable for all crops.

DUPLEX BASIC PHOSPHATE. Contains a minimum of phosphate of lime equivalent to eighteen per cent. phosphate and fifteen per cent. lime. Also contains six to nine per cent. Iron Oxide, one-fifth to one per cent. Maganese Oxide and small quantities of other elements. Best phosphate fertilizer known. (Get booklet on same.) Per Lb. 5c; 25 Lbs. 75c; 100 Lbs. \$2.50.

PULVERIZED SHEEP MANURE. This is a pure, natural manure, and one of the most nutritious foods for plants. Its effect is immediate. It is very rich, safe, and gives quick results. It will give excellent results on flower beds, lawns, or in vegetable gardens, as it contains all the elements for promoting a quick, luxuriant growth, as well as adding body to the plant. Can be used either in dry form or dissolved to make a liquid manure. If applied dry, no raking off is required, as it does not disfigure the grounds, nor does it contain seeds of foul weeds, nor offensive odor. It is especially desirable for lawns, producing a quick, luxuriant growth of rich green color, that will enable the grass to withstand the heat and drought of summer. Per Pkg. 10c; 5 Lbs. 30c; 10 Lbs. 50c; 25 Lbs. \$1.10; 50 Lbs. \$1.65; 100 Lbs. \$2.75.

Coming to the point where Commercial Fertilizers must be used.

FERTILIZERS--Continued

Sulphate of Ammonia

Contains approximately 25% of ammonia and comes in crystal form which makes it nice to apply broadcast. Owing to its firmness and keeping qualities it is preferred by some gardeners and fruitgrowers to Nitrate of Soda. Carrying 5% more Ammonia to the weight then Nitrate of Soda, it should be applied with a little more care using four lbs. instead of five of Nitrate of Soda. Price 1 Lb. 15c; 10 Lbs. \$1.15; 25 Lbs. \$2.00; 100 Lbs. \$7.00.

Insecticides and Fungicides

Ask for special prices on large quantities.

Almost every one realizes the necessity for spraying. It is also necessary to use the right materials, the right way, at the right time. In order to acquaint yourself with how, what, and when to spray, get our spray calendar free.

ANT EXTERMINATOR. $\frac{1}{4}$ Lb. 25c; $\frac{1}{2}$ Lb. 45c; 1 Lb. 80c.

APHIS PUNK. Used for fumigating in greenhouses or hotbeds and guaranteed to destroy most insects. Pkg. 60c.

ARSENATE OF LEAD. (Paste.) The most effective poisonous insecticide for leaf eating insects. 1 Lb. can 40c; 5 Lbs. \$1.75; 10 Lbs. \$3.00; 25 Lbs. \$6.00; 50 Lbs. \$10.00; 100 Lbs. \$19.00.

ARSENATE OF LEAD. (Dry Powdered.) Cannot dry out or deteriorate in any way, even if carried over indefinitely and represents the ideal Arsenate of Lead. $\frac{1}{2}$ Lb. Pkg. 35c; 1 Lb. Pkg. 60c; 5 Lb. Pkg. \$2.75; 10 Lb. Pkg. \$4.75; 25 Lb. \$10.00

"BLACK LEAF 40." Soft-bodied, sucking insects may be effectively controlled by spraying with "Black Leaf 40." This is a contact remedy. 1 Oz. bottle 35c; $\frac{1}{2}$ Lb. tin \$1.25; 2 Lb. tin \$3.75; 10 Lb. tin \$15.50

BORDEAUX LEAD ARSENATE MIXTURE. (Paste.) An Insecticide and Fungicide combined in one very effective product. Sticks well to the foliage. 1 Lb. can 40c; 5 Lbs. \$1.75; 10 Lbs. \$3.00.

BORDO LEAD DRY. An Insecticide and Fungicide composed of Arsenate of Lead and Bordeaux Mixture in dry powdered form. 1 Lb. 60c; 5 Lbs. \$2.75; 10 Lbs. \$5.00.

BORDEAUX MIXTURE. (Paste.) A fungicide for curing and preventing fungoid disease on plants. 1 Lb. 35c; 5 Lbs. \$1.70; 10 Lbs. \$3.00.

BORDEAUX MIXTURE. (Dry Powdered.) Will not dry out or deteriorate. $\frac{1}{2}$ Lb. 30c; 1 Lb. can 50c; 5 Lbs. \$2.00; 10 Lbs. \$3.75.

BUG DEATH. A valuable powder for Cucumbers, Egg Plants, Melons, Rose Bushes, Currants and Potatoes. 1 Lb. 20c; 3 Lbs. 40c; 5 Lbs. 60c; 12 $\frac{1}{2}$ Lbs. \$1.40.

COPPER SULPHATE. For making Bordeaux mixture. 1 Lb. 20c; 10 Lbs. \$1.50; 100 Lbs. \$12.50.

CUTWORM FOOD. The worm seeks the Food in preference to the plant. 1 Lb. 35c; 5 Lbs. \$1.50.



TOBACCO STEMS. Used for fumigating plants to kill insects, and as a mulch for roses, asters, lettuce, etc. 1 Lb. 5c; bale of about 125 Lbs. \$2.00.

TREE TANGLEFOOT. For protecting trees against climbing insect pests in a simple, economical and effective way. 1 Lb. 50c; 3 Lbs. \$1.45; 10 Lbs. \$4.25; 20 Lbs. \$8.00.

WEED KILLER, TARGET BRAND. One application will keep paths and roadways free from weeds for an entire season. 1 Qt. 65c; 1 Gal. \$1.65; 5 Gals. \$6.50.

PARIS GREEN. $\frac{1}{4}$ Lb. 20c; 1 Lb. 65c; 5 Lbs. \$3.00.

SCALE DESTROYER, TARGET BRAND. This preparation is a soluble, mineral oil, designed especially for

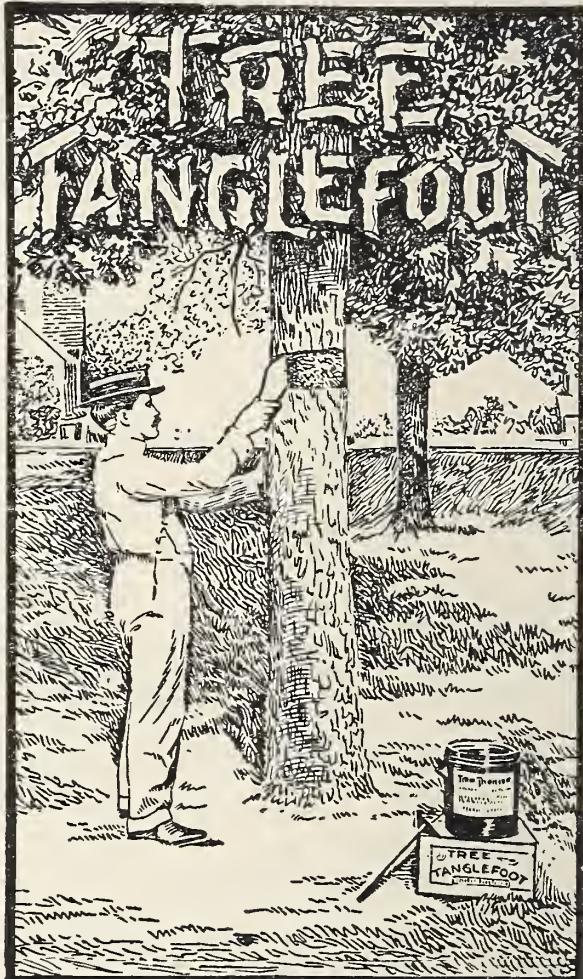
Moss, Peat, etc.

MOSS, GREEN SHEET. For hanging baskets, etc. Per bale 50c; bundle 5 bales \$2.00.

MOSS SPHAGNUM. For packing plants and growing Orchids, etc. Per Lb. 15c; bale \$2.50.

PEAT JERSEY. Per Bu. \$1.50; 2 Bu. bag \$2.75.

POTTING SOIL. Per Peck 35c; Bushel \$1.25.



DRY LIME-SULPHUR. Is a combination of Lime and Sulphur which can be used not only as a dormant spray but also as a summer spray in combination with Arsenate of Lead. 1 Lb. can 35c; 5 Lbs. \$1.50; 10 Lbs. \$2.25; 25 Lbs. \$4.50.

FISH OIL SOAP. For destroying insects on Plants, Trees, Vines, etc. This is also a contact remedy. $\frac{1}{2}$ Lb. 15c; 1 Lb. 25c; 5 Lbs. \$1.15; in bulk, 25 Lbs. \$4.00.

HELLEBORE POWDER. For destruction of Slugs, Worms, Caterpillars, etc. $\frac{1}{4}$ Lb. 20c; $\frac{1}{2}$ Lb. 35c; 1 Lb. 60c; 5 Lbs. \$2.75.

LAWN, SILICATE. A powder for killing weeds. 5 Lb. Pkg. 25c.

LIME SULPHUR SOLUTION. For Fall Winter and early Spring spray. Destroys San Jose Scale, Peach Leaf Curl, Bud Moth, Apple Aphis, Blister Mite, any scale, Insects or Bark Lice. 1 Qt. 40c; $\frac{1}{2}$ Gal. 65c; 1 Gal. \$1.00; 5 Gal. \$3.50; $\frac{1}{2}$ Bbl. (25 Gals.) \$9.80; 1 Bbl. (50 Gals.) \$15.00.

TOBACCO DUST FOR FUMIGATING. 1 Lb. 10c; 3 Lbs. 25c; 10 Lbs. 60c; 25 Lbs. \$1.25; 100 Lbs. \$4.00.

destroying and preventing San Jose Scale. 1 Qt. 60c; 1 Gal. \$1.75; 5 Gal. \$7.50; 30 Gal. \$30.25; 50 Gal. \$45.00.

SCALECIDE. Used according to directions will kill every San Jose Scale that comes in contact with it. 1 Qt. 50c; 1 Gal. \$1.45; 5 Gals. \$6.50; 30 Gals. \$27.00; 50 Gals. \$39.50.

SLUG SHOT. Very effectual in destroying Caterpillars, Currant, Gooseberry and Cabbage Worms, Potato, Melon, Squash and Cucumber Bugs, Rose Slugs, Rose Lice, etc. 1 Lb. carton 25c; 5 Lbs. 65c; 10 Lbs. \$1.25.

SULPHUR, POWDERED. Used to prevent and cure mildew on plants. 1 Lb. 15c; 2 Lbs. 25c; 5 Lbs. 50c; 10 Lbs. 90c.

SPECIAL NOTICE

The suggestions which we give under directions in regard to quantity of spray products to use and when to use them have been carefully compiled after conferring with Government and State Authorities and a large number of the leading growers located in all districts.

The dilutions given may not in all cases bring satisfactory results in all districts and may have to be changed somewhat to meet the various climatic conditions governing the different districts.

We strongly recommend that the growers frequently confer with the Government and State Authorities and secure the latest information regarding dilution best suited to local conditions.

Spraying Pumps, Powder Dusters and Appliances

PARAGON SPRAYERS

are always sold fully equipped with pipe, hose, nozzles, everything required ready for spraying.

All Paragon Sprayers are carefully tested before leaving the factory, so they never fail to work satisfactorily.

Paragon Sprayers are adapted to any spraying solution, and will positively spray whitewash and water paints without straining, and will not clog.

No. 1 - 6 Gal.

PRICE \$20.00

EQUIPMENT

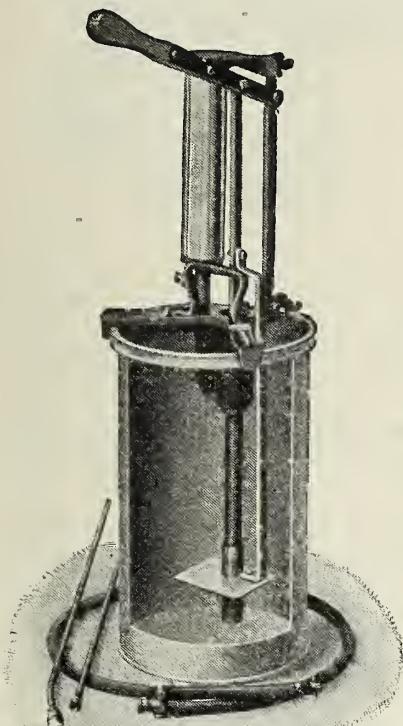
5 feet 6-ply hose, 5 feet spray pipe, 2 nozzles.

This cut of No. 1 Sprayer shows inside mechanical arrangement and patented self-cleaning strainer. No other sprayer can show this feature.

One hundred and fifty pounds pressure are easily attained with these sprayers.

One season's increased production of fruit or one good job of whitewashing will pay many times the cost of a sprayer.

Every Paragon Sprayer is fully guaranteed, and should by chance any part prove defective, same will be immediately replaced free of charge.



NOTICE—Our space being limited, compels us to omit illustrating and describing other sizes of Paragon Sprayers. However, if interested, will mail a circular describing each and every paragon sprayer made. We also carry a full line of repairs for Paragon Sprayers; also Bamboo Brass Lined Spray Poles.

No. 3. Capacity, 12 Gallons

PRICE \$30.00

EQUIPMENT

10 feet 6-ply hose, 7½ feet spray pipe. 2 spray nozzles.

Mounted on strong steel truck and can easily be wheeled to any desired place. Truck is easily detached when desired.

The above cut represents our most popular and best selling sprayer. Thousands are now in use and giving best of satisfaction.

Nos. 1 and 3 Sprayers can be furnished with solid all cast brass pumps.



Auto Compressed Air Sprayer

AUTO COMPRESSED AIR SPRAY. Can be suspended from the shoulder, allowing the free use of the arms. A few strokes of plunger in air chamber will compress enough air to discharge the entire contents. A practical machine for potatoes, tobacco, small fruits, vineyards, poultry houses, green houses, etc.

Auto-Spray No. 1B, Brass Tank, with Auto-Pop Nozzle. Price \$9.50.

Auto-Spray No. 1D, Galvanized Tank, with Auto-Pop Nozzle. Price \$6.50.

Brass Extension, 2 foot length. Price 60c; elbow. 40c.



Auto Compressed Air Sprayer

Auto Spray No. 3

Suitable for spraying, whitewashing and disinfecting with creosote or other heavy mixtures. Tanks 8 to 12 gallons capacity, made of heavy galvanized iron, reinforced at top and bottom all working parts of pump that come in contact with liquids are brass. Pressure of from 150 to 200 pounds can be easily maintained. Plunger can be repacked without removing from brass cylinder. 18 gallon outfit can be had with two wheels if desired. Price 8 Gal. \$17.50; 12 Gal. size \$22.50.



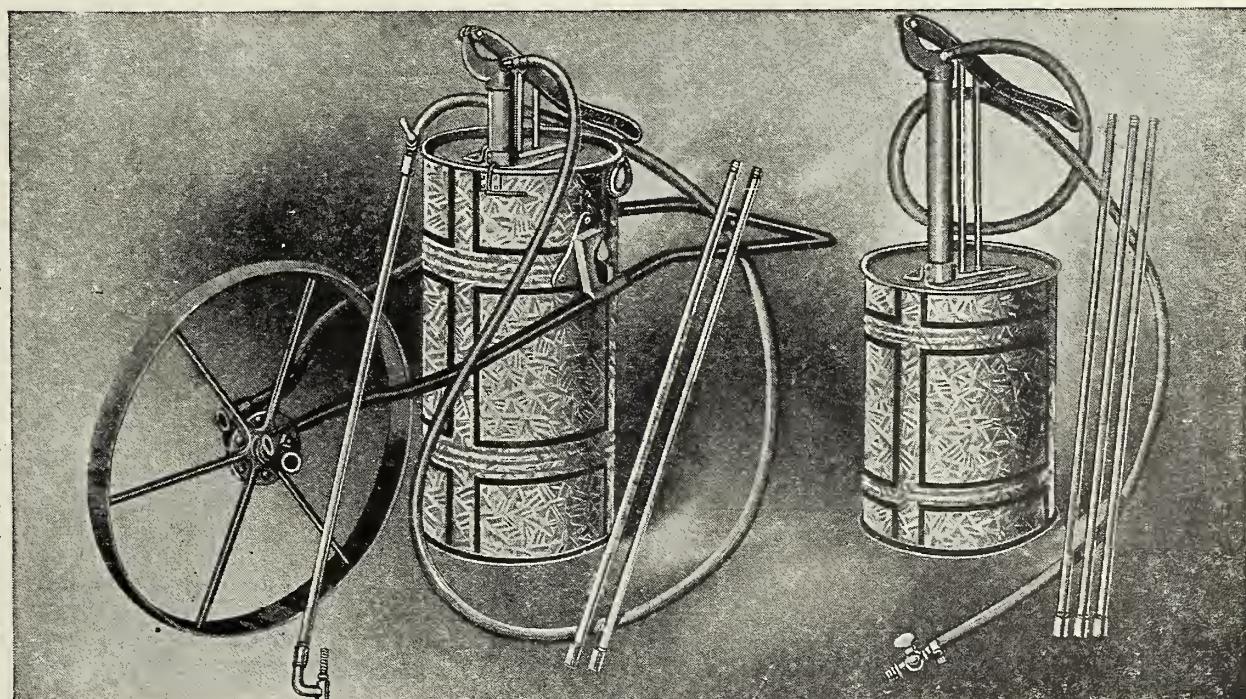
Utility Knapsack Sprayer

Utility Knapsack Sprayer

UTILITY KNAPSACK SPRAYER. Made of heavy Galvanized Iron or Brass. Tank equipped with standard hose connection and heads so constructed as to eliminate danger of blowing out. Pump of heavy Brass tubing with bronze Ball check valve. Nothing to weaken—no rubber to wear out.

No. 10 Galv. Iron.....\$ 7.00

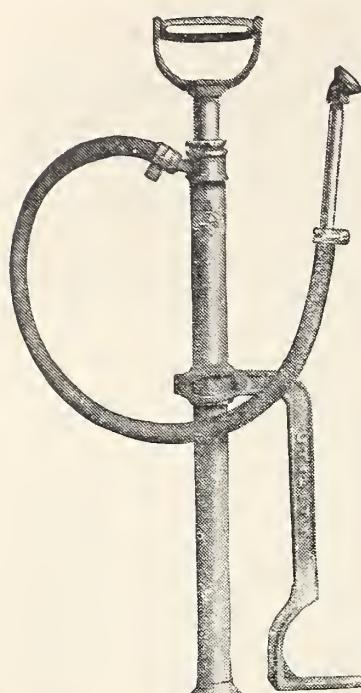
No. 15 Brass.....\$10.00



Auto Sprayer No. 3

Complete line of Sprayers and Dusters always on hand.

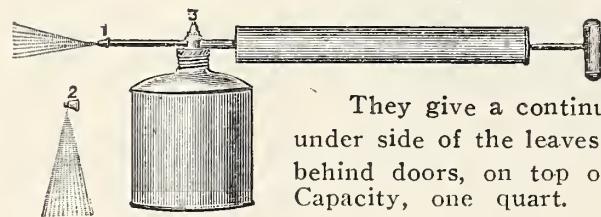
Spraying Pumps, Powder Dusters and Appliances—Continued



Utility No. 95 Bucket Pump

UTILITY NO. 95 BUCKET PUMP. Was designed to meet the demands for a small powerful double-action spray pump. It is very efficient for domestic purposes. Pump is of all-brass construction with ball valves and hemp plunger. It is equipped with our No. 80 Angle Service Nozzle, which has strainer and so designed as to give a fine mist. By removing verbal disc a straight stream can be had. Whitewashing can be done with this pump successfully. Packed one in a box. Shipping weight 6 pounds. Price \$5.40.

LITTLE GIANT BRASS SPRAY PUMP. Is improved with a large air chamber. With agitator, complete with hose and Imperial combination, fine, coarse spray and solid stream nozzle, with malleable foot rest. Price \$4.00.



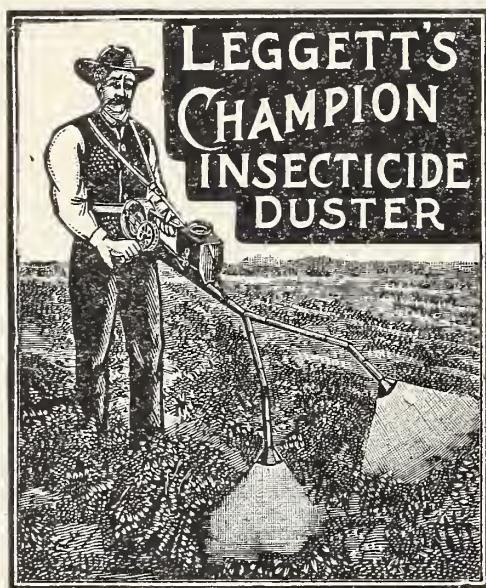
The Robertson Compressed Air Sprayer

They give a continuous spray. By means of the universal nozzle the spray can be thrown on the under side of the leaves of plants and shrubs, the under side of beds and other furniture, into corners, behind doors, on top of mouldings, window casings, behind steam pipes, and other difficult places. Capacity, one quart. Tin Pump and Reservoir, each 90c. Brass Pump and Reservoir, each \$1.50.

Utility Tin Tank Sprayer

UTILITY-TIN TANK SPRAYER. Made of heavy tin, strong, durable and perfectly satisfactory. Qt. size price 50c.

MIDGET SPRAYER. Capacity one pint, made of tin, suitable for small gardens and house plants. 35c each.



Champion Insecticide Duster

CHAMPION INSECTICIDE DUSTER. It will cover two rows as fast as a man can walk. Can be easily regulated as to quantity and will do as much work in a day as a horse sprayer. Extension tubes enable the Gun to be used on fruit and shade trees and in the vineyard. Among tobacco and potato growers they have become almost indispensable performing the work in a perfect and rapid manner. Price complete. \$14.00.

Little Giant Duster

LITTLE GIANT DUSTER. This is made on the same principle as the Champion but the capacity is smaller and there are some differences in construction. It is offered to supply the demand for a low-priced implement. It works in the same manner as the Champion with a crank. Does not have as many parts nor as much extension. Price each \$11.00.



DICKEY BUG DEATH DUSTER. Practical and effective; for applying Bug Death Powder. 25c. each.

BELLOWS, ACME. Is well made, with a solid hardwood head block, hardwood handles, best leather for the bellows, and extra elbow is furnished to tilt the funnel for getting under the leaves of plants and shrubs. \$1.50.

We Also Carry in Stock Constantly Pratts Stock Remedies as follows:

PRATT'S ANIMAL REGULATOR. By the constant use of this well known regulator you can keep your stock in the pink of condition. Pkg. 25c; larger 50c; 12 Lb. Pail, \$2.15; 25 Lb. Pail, \$3.40; 100 Lb. Bag, \$11.40.

PRATT'S HEALING OINTMENT. It penetrates quickly, insuring cooling qualities and immediate relief. Pkg. 30-60c.

PRATT'S DISTEMPER AND PINK-EYE REMEDY. It overcomes a most troublesome disease by going direct to the cause. Bottle, 70c.

PRATT'S HEAVE COUGH AND COLD REMEDY. A positive remedy for Heaves, Coughs and Colds, by restoring natural breathing; strengthens the lungs. Pkg. 50c;

PRATT'S WORM POWDER. A guaranteed worm expellant. Pkg. 50c.

PRATT'S COLIC CURE. Every horse owner should always have some on hand—a sure cure. Bottle, 75c.

PRATT'S COW REMEDY. It's a tested remedy for contagious abortion, barrenness (failure to breed), and all cow diseases, and a reliable fattener. Pkg. 60c-\$1.20

PRATT'S BAG OINTMENT. Sure cure for caked bag, sore teats, bunches, and all inflammation. Box, 35c; larger, 70c.

PRATT'S HOG TONIC. A tonic which will cause the Hog Machine to change a reduced amount of feed into clean, sound and worm-free Pork. Pkg. 50c-\$1.00.

Novelties and Specialties of Great Merit

In the following list of Novelties and Specialties you will find varieties which have been thoroughly tested and have proven their merit. For home gardens we especially advise trying Perfection Stringless Beans, Gigantic Pole Lima, Golden Honey Dew Corn, Delicious Peas.

M. G. S. Co's. Round Pod Wax Bean A very handsome mid-season variety, especially desirable for snaps for the home garden. The plants are of strong growth, spreading and very productive. The leaves are large, broad, and roughened. The pods are long and round, five and one-half to six inches, slightly curved, light yellow, wax-like stringless, and of the very best quality. Seed long, cylindrical, medium sized, nearly white with a little dark marking about the eye. (See page 4.)

M. G. S. Co's. Perfection Stringless Bean A very hardy and productive green podded sort with strong vigorous vines. The pods are round, more fleshy, straighter, much longer, and more productive than Red Valentine and entirely stringless. Pods 6 to 7 inches long. One of the best stringless beans yet introduced. (See page 5.)

M. G. Seed Co.'s Stringless White Valentine This new and distinct white Valentine has all the good qualities of the well known Red Valentine with the advantage of a white seed, very productive, stringless and unequaled flavor, also a good shell bean for baking. Once tried you will want nothing better than this variety. (See page 5.)

Fordhook Bush Lima Bean An improved dwarf lima of the Kumerle type. It is sometimes called Potato Bush Lima. The plants are vigorous and erect, bearing well above the ground. The pods, which are produced in large clusters, are medium green, about four and three-fourths inches long and each contains three to five large beans of exceptionally fine quality. It is much more productive than Kumerle and matures earlier. Seed large, irregularly oval in shape, very thick, white with greenish tinge. This sort is popular for home and market use, especially in the east. (See page 6.)

M. G. S. Co's. White Ky. Wonder Bean An early maturing, green podded, white seeded pole sort desirable for snaps and unsurpassed in its class as green shell beans. The vines are vigorous and very productive. The pods are round, very long, often eight to nine inches, irregular in shape and quite stringless. The beans when shelled green are large, very tender and white, a very desirable feature when comparison is made with the colored beans of other varieties of this class. Seed medium big, oval or well rounded, solid white. Many gardeners consider this bean the most desirable pole sort. (See page 7.)

Gigantic Pole Lima Beans This comparatively new pole lima bean is the largest podded of any variety of this class. The mammoth pods are eight to twelve inches long, dark green in color and contain six to eight beans of the most excellent quality. It comes into bearing medium early and the vines which are vigorous and strong growing are exceptionally productive. A variety of distinctive merit for the home garden. (See page 8.)

Swiss Chard (Sea Kale or Spinach Beet) This kind of beet is grown exclusively for the numerous, fleshy, tender leaves and leaf stalks, which are superior to those of other beets for use as greens. Later in the season the wax-like leaf stems are cooked, like asparagus, or are pickled. This variety we offer has large, broad, undulated leaves of attractive yellowish green color, and remarkably large, broad, white stalks and midribs or chards. It is well worthy of a place in the home garden as well as for market use. Swiss Chard is sometimes called "Leaf Beet and Silver Beet." (See page 9.)

Copenhagen Market Cabbage The earliest large round-headed cabbage yet introduced. The heads are exceptionally large for so early a variety, very solid and of most excellent quality. The plants are vigorous but compact, with short stem and few outer leaves which are of rather upright growth. The leaves are medium light green, nearly round, comparatively thick and smooth. This is a most excellent sort, both for the home garden and market gardening trade. Our strain produces the characteristic large, round heads that for solidity and excellent quality make this variety so valuable. (See page 11.)

Chinese Cabbage (Pe-Tsai) The improved strain we offer resembles when well-grown Cos Lettuce rather than Cabbage. It is often called Celery Cabbage on the market.

The leaves of the plant when young are crimped at the edges, of light green color and appear like smooth-leaved mustard, but with much broader and heavier midribs. The plant as it matures becomes more upright and forms heads much like Cos Lettuce. The inner leaves blanch an attractive light yellow or creamy white with very white midribs. It is of distinctive flavor, very mild and pleasant. It is served as a salad like lettuce or cooked like asparagus.

Sow in this latitude after July 1st at the same time as turnips. The early plantings of Pe-Tsai run quickly to seed in hot weather. Sow in drills fourteen to twenty inches apart and thin seedlings two or three times; or if grown for the market start in boxes and transplant like late cabbage. (See page 11.)

Golden Honey Dew Corn A New Golden Grain variety that has ears about seven inches long which resembles Golden Bantam in color but we claim superior flavor. Usually twelve rowed, long grained, very sweet and tender and remains fit for table use longer than any other yellow corn. (See page 15.)

Blue Bantam This corn, when very young, cooks remarkably white, but the ripe grain is bluish black. For home use we consider it the best second early sort where tenderness and sweetness are the qualities most desired. It does especially well as a second early variety in the South. The stalks are about six and one-half feet high. The ears are about eight inches long and are usually eight rowed. (See page 15.)

M. G. S. Co's. Big Boston Lettuce (Seed white) This variety is popular for outdoor culture and is also much in demand as a compact, large heading, forcing sort for cold-frames. The plants are large, very hardy and vigorous. The leaves are broad, comparatively smooth but wavy at the edge, thin, very hard, and crisp. In color they are bright light green, the head slightly tinged with reddish brown. The inner leaves blanch to an attractive greenish white, tinged with light yellow. It usually heads up under cold weather conditions better than any other variety, and is grown extensively in the south for shipment north in the winter. (See page 19.)

M. G. S. Co's. Ohio White Globe Onion A most desirable medium early or main crop variety for the home garden. The variety yields abundantly, producing medium to large, handsome, and finely shaped, clear white bulbs. The flesh is firm, fine grained, quite mild in flavor and is more attractive than the colored sorts when cooked. The bulbs are globe-shaped, full at the shoulder, rounded at the base, keep well and are desirable for shipping. To produce the beautifully white onions so much sought in every market, one must first of all have good seed; second, grow them well on rich lands; third, exercise great care in harvesting and curing the crop. In Southport they "cord" up the onions in long rows, the bulbs on the inside, and cover with boards, so that the bulbs in the open air are well protected from rain or dew which would be sure to discolor them. We have a developed strain which is unsurpassed in uniformity and beauty of shape and color. (See page 22.)

M. G. S. Co's. Ohio Yellow Globe Onion A very handsome late or main crop onion of the largest size and nearly globular in form, usually with shoulder and base slightly sloping. The skin is yellowish brown or light yellow with slight tinge of brown. The flesh is creamy white, very mild, tender, and of excellent flavor. The variety keeps well if thoroughly ripened and is very desirable for shipping for fall and early winter use. It is one of the best of the large sorts that has become thoroughly acclimated in America and is exceptionally productive under proper conditions. If started very early it will produce a mammoth onion the first season. (See page 22.)

M. G. S. Co's. Delicious Peas It is a favorite with the market Gardeners for a general crop on account of the strong vines, large peas and pods. A heavy cropper. Vines are strong, vigorous, and covered with large pods 4 to 5 inches long well filled. Peas wrinkled, vines branching, about 2½ feet tall. The most delicious Peas obtainable. (See page 25.)

M. G. S. Co's. Early Michigan Tomato This splendid variety, introduced in 1909, is the largest and best of the early purplish tomatoes. The vines are vigorous and very productive. The fruits are very smooth, uniform in size, nearly globe-shaped, firm, and of excellent quality. Early Michigan is one of the most valuable shipping tomatoes yet produced. It is also desirable for the home garden and near markets. We highly recommend this variety. (See page 30.)

Novelty Flower Seeds

Antirrinum or Snap Dragon. One of the best border plant that blooms almost the entire season. Have long showy spikes of tubular flowers spreading lobes and finely marked throats, fragrant and brilliant colored. One of the best annuals for cutting, as flower spikes are long and blooms are borne well above the dark glossy green leaves. (See other description on page 51.)

Aster Mammoth Flowering American Beauty. A class of strong superb strain of American origin and especially adapted to our climate conditions. The plants form strong branching bushes two to two and one-half feet high bearing on long strong stems their handsome Chrysanthemum like flowers, which under ordinary cultivation average five inches across. Colors white, light blue, dark blue and pink.

Calendula Will grow in any good soil, and are easily raised from seed. Flowers in many shades of orange and yellow, also white. Continues to bloom all season until frost.

Carnations Mixed Marguerite. A strain of the very best seed, in all colors, of the best variety only, which grow to an even height. The stalks are sturdy, flowers are very large, fragrant and perfectly double. The plant blooms from spring to late in the fall, until checked by severe frost. A half hardy perennial; a slight protection of coarse straw will preserve them during winter.

Cardinal Climber This is a very attractive, strong and rapid grower attaining a height of twenty-five feet with beautiful fern-like foliage and covered with intensely red flowers.

Celosia Childsii (Chinese Wallflower). A unique form of the feathered cockscomb growing two to three feet high, each branch terminated with a large head of rich crimson flowers that look like silky wool. Good for border or bedding and very valuable for cutting.

Cosmos New Double Flowering. It has taken a great deal of patience to produce and perfect this strain now offered. The flowers vary considerably in their doubleness some absolutely double others have a frill or color surrounding the double disc. Very artistic and beautiful in either form. Folage heavier less cut than the single varieties. Quite a novelty and should be tried by all flower lovers.

Eschscholtzia (*California Poppy*) The State flower of California. It is fully as valuable as the common Poppy for garden ornamentation since it blooms through a much longer season. A bed in full bloom of these large saucer-shaped flowers in various shades of yellow with orange center gives a brilliant color effect. The foliage is finely cut and has a bluish tinge or bloom, delicate and very attractive.

Gypsophila Annual plants growing about two feet high, and producing large clusters of pink and white flowers. Of bushy dense growth covered with bloom. Invaluable for cut flowers.

Helichrysum (*Strawflower*). Everlasting. A very beautiful everlasting flower in a wide range of colors. If cut before quite developed the flowers are very lasting.

Marigold (*Legion of Honor*). A single flowering sort, forming a compact bush about 1 foot high. Begins flowering early and continues throughout the season. Flowers a golden yellow, marked with a spot of crimson velvet.

Morning Bride (*Scabiosa*). The great variety of shades and the long rigid stems make these beautiful flowers, one of the most desirable for cutting and bouquet work. Similar in shape to the Marigolds. Of easiest culture. Sow outdoors where plants are to stand. Our mixture contains many beautiful colors.

New Japanese Poppy Geisha A very pretty fluted or ruffled variety, bright glistening scarlet on the outside while the inside is rich golden orange, a most brilliant oriental color combination.

Superbissima Very large flowers of exceptionally fine form and substance, usually ruffled and beautifully veined and blotched **Blotched** in all the finer and deeper shades and colors found in pansies. Plants very vigorous and floriferous. Superior to rather than simply different from old strains. Flowers of Mammoth size. Borne on stout stems, making them invaluable for cuts. The most desirable sort for Florists' use..... Giant Pkt. 25c.

Petunia, Rosy Morn. A pink bedding variety, the result of several years of careful selecting, which are now almost true compact globular plants about a foot high covered with soft carmine pink flowers the entire season. One of the best varieties for bedding.

Petunia (Giant California). Flowers of immense size, superbly colored with throats beautifully veined and blotched. They commence blooming early in season and continue until cut off by frost. Our strain is considered by those who know the best obtainable.

Schizanthus (*Butterfly Flower*). Are not as well known to flower lovers as they ought to be. Of easy culture. Plants grow to a height of two feet and are covered with a mass of beautiful colored flowers in many shades

Sweet Peas (*Spencers Mixed*). The greatest care has been exercised in blending this superb mixture. Made out of the finest named sorts insuring a well balanced range of describable colors and it would be impossible to get a finer variety at any price.

Verbena (New Lucifer). A most valuable addition to the range of colors in this important bedding variety being intensely deep cardinal scarlet throughout. Identical to the Mammoth Verbena in size of bloom, floriferousness and other good qualities. A brilliant bed or border plant.

Wall Flower In Europe these fine free blooming plants are much grown and appreciated. Grow about eighteen inches high in many colors similar to Stocks. Sow early in boxes or under glass; transplant to pots. Plunge the pots down in the garden and late in the fall take in house for winter bloom.

Zinnia (Double Giant Flowering). One of the most distinct and meritorious annuals of recent introduction. Plant is compact, about three feet high and bears a multitude of very double flowers about six inches across. Flowers on long stems all colors and one of the most satisfactory bedding plants.

CANNING DIRECTIONS

Canned vegetables for use when fresh vegetables are not available have an assured place in household economy, and by this method any surplus of the garden may be used to advantage. All of the garden vegetables are wholesome and nutritious when properly canned, and if the directions given are followed all of them may be kept satisfactory. There are several methods by which vegetables may be canned. We believe, however, that what is known as the "cold-pack" method is the most satisfactory for general use. By this method, with a table showing the time required for cooking, any fruit or vegetable may be canned successfully.

THE HOME-MADE OUTFIT—A serviceable cold-pack home canning outfit may be made of materials found in any household. All that is necessary is a vessel to hold the jars or cans, such as a wash boiler or large tin pail. This vessel should have a tight fitting cover and be deep enough so that water will cover the top of the jars at least one inch. Provide a false bottom of wood or a wire rack to allow of free circulation of water under the jars. The wood bottom may be made of perforated boards or of lath or similar strips of wood nailed to cross pieces. A strip of wood around the edge of the rack will prevent the jars slipping off when lifting the tray out of the cooker. If furnished with handles made of heavy wire the tray may be lifted out of the cooker entirely for removing or replacing jars.

CONTAINERS—All types of jars that seal perfectly may be used. It is suggested that use be made of those to which one is accustomed or which may be already on hand. New rubbers should be purchased each year, but the glass jars may be used indefinitely. Be sure that no jar is defective. The containers should be thoroughly clean. It is not necessary to sterilize them in steam or boiling water before filling them, for the reason that in the cold-pack process both the insides of containers and the contents are sterilized. The jars should be heated before the cold product is put in them.

Directions for Cold Pack Method

The cold-pack method of canning is so simple and the directions so easily followed that almost any one may successfully can vegetables or fruits with it. The steps to be taken and the precautions to be observed are as follows:

Select sound vegetables and fruits. (If possible can them the same day they are picked.) Wash, clean, and prepare them. Have ready, on the stove, a can or pail of boiling water. Place the vegetables or fruits in cheese-cloth, or in some other porous receptacle—a wire basket is excellent—for dipping and blanching them in the boiling water. Put them whole into the boiling water. (See time-table for blanching on next page.) After the water begins to boil, begin to count the blanching time.

The blanching time varies from one to twenty minutes, according to the vegetables or fruit. When the blanching is complete remove the vegetables or fruits from the boiling water and plunge them a number of times into cold water, to harden the pulp and check the flow of coloring matter. Do not allow to stand in cold water.

The blanching of vegetables removes excess acids, improving the flavor. It also causes some shrinkage, so that a large quantity may be packed in a container. The blanching and cold dip cause vegetables to retain their original coloring, which enhances their appearance.

Pack the product into the containers, leaving about a quarter of an inch of space at the top.

With vegetables add one level teaspoonful of salt to each quart container and fill with boiling water.

Test the rubber by stretching or turning inside out. Fit on the rubber and put the lid in place. If the container has a screw top do not screw up as hard as possible, but use only the thumb and little finger in tightening it. This makes it possible for steam generated within to escape and prevents breakage. If a glass top jar is used, snap the top bail only, leaving the lower bail loose during sterilization.

Place the filled and capped containers on the rack in the sterilizer. If the home-made or commercial hot water bath outfit is used, enough water should be in the boiler to come at least one inch above the tops of the containers, and the water, in boiling out, should never be allowed to drop to the level of these tops. Begin to count processing time when the water begins to boil.

Consult the time-table on next page, and at the end of the sterilizing period remove the containers from the sterilizer. Fasten covers on tightly at once, turn containers upside down to test for leakage, leave in this position until cold and then store in a cool, dry place. Be sure that no draft is allowed to blow on glass jars, as it may cause breakage.

If jars are to be stored where there is strong light wrap them in paper, preferably brown, as light will fade the color of products canned in glass jars, and sometimes deteriorate the food value.

Vegetable Canning in Cold Pack

Vegetables may be divided into five classes, all the vegetables of each class being sterilized by practically the same process under the cold-pack method. These classes are: (1) vegetable greens; (2) roots and tubers; (3) tomatoes and corn; (4) pumpkin and squash; (5) pod vegetables, such as beans, peas, and okra. Directions for these various classes are given herewith.

VEGETABLE GREENS—Besides spinach, dandelions, and kindred greens this class includes cabbage, brussels sprouts and cauliflower. Greens should be trimmed, the old leaves and coarse stems removed, and the greens then blanched in steam from fifteen to twenty minutes, in a regular steamer or in any other closed receptacle in which the greens will be suspended or raised above the water. After blanching they should be plunged into cold water. They are then packed tight in containers. If one wishes one may season with meat, olive oil, etc., to taste. Add hot water to fill up the crevices and sterilize two hours in the hot-water bath outfit.

CANNING DIRECTIONS—Continued

Root or Tuber Vegetables—This class includes carrots, parsnips, beets, turnips, and sweet potatoes. After being thoroughly washed and scrubbed with a vegetable brush they should be scalded long enough to loosen the skin. Plunge them immediately into cold water, then scrape or pare off the skin. They may be packed whole or cut into cubes. Fill containers with boiling water, with one level teaspoonful of salt to each quart container. Screw on the tops lightly and sterilize for an hour and a half in the hot-water bath outfit. Cool and store.

Tomatoes—These demand special canning directions. Scald the tomatoes enough to loosen the skin. Then plunge them into cold water, core and skin them and pack them whole. Do not put in any hot water, but add a level teaspoonful of salt to each quart container. Loosely seal and sterilize twenty-two minutes in hot-water bath outfit. Tighten covers, invert containers to cool and test, wrap in paper and store.

Corn on the Cob—Be sure to have fresh corn. After removing the husks and silk blanch the corn on the cob for five to fifteen minutes. Then plunge it into cold water and pack the ears, alternating butts and tips, in half-gallon containers. Fill the containers with boiling water and put two level teaspoons of salt in each gallon. Sterilize the partially sealed containers three hours in the hot-water bath outfit. Tighten covers, tip the containers on their sides to cool, wrap them in paper and store.

Corn off the Cob—If you do not care to can corn on the cob, after blanching slice the corn from the cob with a thin, sharp knife. Pack corn in containers, add a level teaspoonful of salt to each quart, fill with hot water and sterilize for three hours as in the case of corn on the cob.

Pumpkin and Squash—For pie filling cut pumpkin or squash into small pieces, then cook for thirty minutes, so that it becomes pulp. Add one quart of sugar and one teaspoonful of salt to each quart of pulp. After partially sealing sterilize ninety minutes in hot-water bath outfit. Cool, wrap, and store. Pumpkin or squash may also be put in cubic form for special uses, such as frying, creaming, or baking. To do this blanch for ten minutes, dip into cold water, pack into containers, fill each container with boiling water and add one level teaspoonful of salt to each quart, but no sugar. Sterilize for ninety minutes in the hot-water bath outfit.

Pod Vegetables—Such vegetables as lima beans, string beans, peas, and okra, should be blanched in boiling water from two to five minutes, plunged into cold water and packed. Fill container with boiling water, adding a level teaspoonful of salt to each quart. Sterilize two hours in hot-water bath outfit. Cool and store.

Precautions

One of the troubles to be guarded against in keeping canned goods is the development of mold during storage. Mold is apt to develop if the sealing is defective. Care must therefore be used in sealing. Mold may also develop if the tops of jars are removed, after sterilizing, for replacing rubber rings. It is unsafe to keep jars in a damp place where the rubbers may decompose, as this, too, may result in the development of mold.

Another thing to guard against is improper or inadequate blanching and cold dipping. If vegetables or fruits which require blanching are not handled properly in the process shrinkage is apt to occur during the period of sterilization. Care should be taken to follow the instructions on this point.

Careless packing must be avoided. Vegetables and fruits should be packed closely in containers, and after this has been done the containers should be filled with hot salted water in the case of vegetables and syrup in the case of fruits.

In canning vegetable greens, including spinach, dandelions, and kindred vegetables, and cabbage, brussels sprouts, and cauliflower it is important that the mineral salts and volatile oils should not be lost. The retention of these is required for perfect results. For this reason the greens must never be blanched in hot water. The blanching must be in steam. This may be done by having them suspended in a closed vessel partially filled with boiling water, taking care to see that they are above the water line.

It is important that vegetables and fruits should not be allowed to remain too long in the sterilizer. If sterilization is allowed to continue too long the product will shrink. Watch the time and follow the schedule as given in the table.

One of the things to be avoided with canned peas, corn, beans, and asparagus, is the development of what is known as the state of being "flat sour." The canned goods may show no signs of spoilage, and yet be found, on opening, to be in this condition. The trouble is manifested by a sour taste and disagreeable odor. It may be avoided by making use of vegetables that have not been gathered more than five or six hours. Blanch, cold-dip, and pack one jar at a time, placing each jar in the canner as it is packed. This is a wise precaution, and one that should not be overlooked.

TIME-TABLE FOR BLANCHING OR STERILIZING

The following time-table shows blanching and sterilizing time for various vegetables:

	Blanching Minutes	Sterilizing Minutes		Blanching Minutes	Sterilizing Minutes
Vegetable Greens.....	15 to 20	120	Tomatoes	To loosen skin	22
Cabbage	15 to 20	120	String Beans.....	2 to 5	120
Cauliflower	15 to 20	120	Lima Beans.....	2 to 5	120
Brussels Sprouts.....	15 to 20	120	Corn (on cob or off).....	5 to 15	180
Carrots	5 to 8	90	Pumpkin (for pie).....	Cook 30 min.	90
Parsnips	5 to 8	90	Squash (for pie).....	Cook 30 min.	90
Beets	3 to 8	90	Pumpkin or Squash Cubes.....	10	90
Turnips	5 to 8	90	Peas	2 to 5	120
Sweet Potatoes.....	5 to 8	90	Okra	2 to 5	120

Reference Tables

Number of plants to the acre at given distances

Dis. apart.	No. plants.						
12x 1 In.	522,720	24x24 In.	10,890	36x36 In.	4,840	60x60 In.	1,743
12x 3 In.	174,240	30x 1 In.	209,088	42x12 In.	12,446	8x 1 Ft.	5,445
12x12 In.	43,560	30x 6 In.	34,848	42x24 In.	6,223	8x 3 Ft.	1,815
16x 1 In.	392,040	30x12 In.	17,424	42x36 In.	4,148	8x 8 Ft.	680
18x 1 In.	348,480	30x16 In.	13,068	48x12 In.	10,890	10x 1 Ft.	4,356
18x 3 In.	116,160	30x20 In.	10,454	48x18 In.	7,790	10x 6 Ft.	726
18x12 In.	29,040	30x24 In.	8,712	48x24 In.	5,445	10x10 Ft.	435
18x18 In.	19,360	30x30 In.	6,970	48x30 In.	4,356	12x 1 Ft.	3,630
20x 1 In.	313,635	36x 3 In.	58,080	48x36 In.	3,630	12x 5 Ft.	736
20x20 In.	15,681	36x12 In.	14,520	48x48 In.	2,723	12x12 Ft.	302
24x 1 In.	261,360	36x18 In.	9,680	60x36 In.	2,901	16x 1 Ft.	2,722
24x18 In.	15,520	36x24 In.	7,260	60x48 In.	2,178	16x16 Ft.	170

Quantity of seed requisite to produce a given number of plants and sow an acre

	Quantity per acre.
Artichoke, 1 oz. to 500 plants	6 oz.
Asparagus, 1 oz. to 800 plants.	
Asparagus Roots	1000 to 7250
Barley	2½ bu.
Beans, dwarf, 1 pint to 100 ft. of drill	1 bu.
Beans, pole, 1 pint to 100 hills	½ bu.
Beet, garden, 1 oz. to 100 feet of drill	7 lbs.
Beet, Mangel, 1 oz. to 100 feet of drill	5 lbs.
Broccoli, 1 oz. to 5,000 plants	2 oz.
Brussels Sprouts, 1 oz. to 5,000 plants	2 oz.
Buckwheat	½ bu.
Cabbage, 1 oz. to 5,000 plants.	
Carrot, ¼ oz. to 100 feet of drill	2½ lbs.
Cauliflower, 1 oz. to 5,000 plants.	
Celery, 1 oz. to 15,000 plants.	
Chicory	4 lbs.
Clover, Alsike and White Dutch	6 lbs.
Clover, Alfalfa, or Lucerne	15 to 25 lbs.
Clover, Crimson Trefoil	10 to 15 lbs.
Clover, Mammoth and Medium	8 to 12 lbs.
Collards, 1 oz. to 5,000 plants.	
Corn, rice (<i>shelled</i>)	2 qts.
Corn, sweet, ¼ pint to 100 hills	6 qts.
Cowpea, in drills	1 bu.
Cress, ¾ oz. to 100 feet of drill	12 lbs.
Cucumber, 1 oz. to 100 hills	1 to 3 lbs.
Dill, ½ oz. to 100 feet of drill	5 lbs.
Egg Plant, 1 oz. to 2,000 plants	4 oz.
Endive, ¼ oz. to 100 feet of drill	4½ lbs.
Flax broadcast	½ bu.
Garlic, bulbs, 1 lb. 10 feet of drill	
Gourd, 2 oz. to 100 hills.	
Grass, Blue, Kentucky	2 bu.
Grass, Blue, English	1 bu.
Grass, Hungarian and Millett	½ bu.
Grass, Meadow Fescue	1 bu.
Grass, Mixed Lawn	3 to 5 bu.
Grass, Red Top Fancy	8 to 10 lbs.
Grass, Red Top Unhulled	20 to 28 lbs.
Grass, Timothy	¼ bu.

Quantity of seed requisite to produce a given number of plants and sow an acre

	Quantity per acre.
Grass, Orchard, Perennial Rye, and Wood Meadow	2 bu.
Hemp	½ bu.
Horse Radish Roots	10,000 to 15,000
Kale, 1 oz. to 5,000 plants, or 200 feet of drill.	
Kohl Rabi, ½ oz. to 100 feet of drill	4 lbs.
Leek, ½ oz. to 100 feet of drill	4 lbs.
Lettuce, ¼ oz. to 100 ft. of drill	3 lbs.
Martynia, 1 oz. to 100 feet of drill	5 lbs.
Melon, Musk, 1 oz. to 100 hills	1 to 3 lbs.
Melon, Water, 4 oz. to 100 hills	1½ to 4 lbs.
Nasturtium, 2 oz. to 100 feet of drill	15 lbs.
Okra, 1 oz. to 100 feet of drill	8 lbs.
Onion Seed, ½ oz. to 100 ft. of drill	4 to 5 lbs.
Onion Seed, for Sets	40 to 80 lbs.
Onion Sets, 1 quart to 40 feet of drill	8 lbs.
Parsnip, ¼ oz. to 100 feet of drill	3 lbs.
Parsley, ¼ oz. to 100 feet of drill	3 lbs.
Peas, garden, 1 pint to 100 ft. of drill	1 to 3 bu.
Peas, field	2 bu.
Pepper, 1 oz. to 1,500 plants	
Pumpkin, ½ quart to 100 hills	3 to 4 lbs.
Radish, ⅔ oz. to 100 ft. of drill	10 to 12 lbs.
Ruta Baga	2 to 4 lbs.
Rye	1½ bu.
Sage in drills	4 to 5 lbs.
Salsify, ¾ oz. to 100 feet of drill	8 lbs.
Spinach, ½ oz. to 100 feet of drill	8 lbs.
Summer Savory	¾ lbs.
Sunflower	8 lbs.
Squash, Summer, 4 oz. to 100 hills	2 lbs.
Squash, Winter, 8 oz. to 100 hills	2 lbs.
Tomato, 1 oz. to 4,500 plants	
Tobacco, 1 oz. to 5,000 plants	
Turnip, 1 oz. to 250 feet of drill	1 to 3 lbs.
Vetches, Spring	90 to 120 lbs.
Vetches, Winter	30 to 60 lbs.

Standard weights of various articles

	Per bu.
Barley	48 lbs.
Beans	60 lbs.
Buckwheat	48 lbs.
Canary Seed	60 lbs.
Castor Beans	46 lbs.
Clover Seed	60 lbs.
Corn, field, shelled	56 lbs.
Corn, field, on ear	70 lbs.
Corn, sweet, sold by measured bushel.	
Flax Seed	56 lbs.
Grass, Timothy	45 lbs.
Hemp Seed	44 lbs.
Hungarian	48 lbs.
Millet, common	50 lbs.
Millet, German or Golden	50 lbs.
Peas, smooth	60 lbs.
Peas, wrinkled	56 lbs.
Rape	50 lbs.
Rye	56 lbs.
Sugar Cane (Sorghum)	50 lbs.
Vetches or Tares	60 lbs.

FOREIGN NAMES OF VEGETABLES AND HERBS

English	German	French	Spanish	Italian	Danish-Norwegian	Polish
Anise	Anis, Grüner Anis	Anis	Anis, Matalahuga	Aniso, Anacio	Anis	Anyz.
Artichoke	Artischoke	Artichaut	Artichoco	Articiocca	Artiskok	Karczochy.
Asparagus	Spargel	Asperge	Esparrago	Sparagio	Asparges	Szparagi.
Balm	Citronen-Melisse	Melisse citronelle	Toronjil, Citronell	Melissa	Balsamurt	Balsam.
Basil	Basilikum	Basilic grand	Albaca	Basilico	Basilikum	Bazylia.
Beans	Bohnen	Haricots	Habichuela	Fagioli	Boenner	Fasola.
Beet	Rübe	Betterave	Remolacha	Barbabietola	Roedbede	Buraki.
Borage	Boretsch	Bourrache	Boraja	Boragine	Borago	Boraz.
Broccoli	Spargelkohl	Chou Brocoli	Broculi	Brocoli	Broccoli-Kaal	Brokuly.
Brussels Sprouts	Rosenkohl	Chou de Bruxelles	Bretones de Bruse	Cavolo di Bruxelles	Rosenkaal	Latorvil.
Cabbage	Kopfkohl, Kraut	Chou pommé	Col repello	Cavolo cappuccio	Hovendkaal	Kapusta.
Cabbage, Savoy	Wirsing	Chou de Milan	Col de Milan	Cavolo di Milano	Savoikall	Sabaudzka.
Caraway	Feld-Kümmel	Cumin des pré	Comino	Carvi	Karve	Kminek.
Carrot	Carotten, Möhren	Carotte	Zanahoria	Carota	Gulerod	Marchew.
Cauliflower	Blumenkohl	Chou-fleur	Coliflor	Cavoloflore	Blomkaal	Kalafiory.
Celery	Sellerie	Céleri	Apio	Sedano	Selleri	Selery.
Celeriac	Knoll-Sellerie	Céleri-rave	Apio-nabo	Sedano-rapa	Knopselleri	Selery. (Korzen).
Chervil	Kerbel	Cerfeuil	Perifollo	Cerfolio	Kjörvæl	Czechrzyca.
Chicory	Cichorienwurzel	Chicorée	Achicoria	Cicoria selvatica	Cichorie	Cykorya.
Coriander	Coriander	Coriandre	Culantro	Coriandorlo	Koriander	Koledra.
Corn Salad	Feldsalat	Mâche	Canonigos	Valeriana	Vaarsalat	Ziarno Salaty.
Corn	Mais	Mais	Maiz	Mais	Mais	Kukurydza.
Cress	Garten-Kresse	Cresson alénois		Agretto	Karse	Rzerzucha.
Cress, Water	Bdunnenkresse	Cresson de fontain	Berro	Nasturzio aquatico	Broendkarse	wodna.
Cucumber	Gurken	Concombre	Cohombro	Cetriolo	Agurk	Ogorek.
Dandelion	Löwenzahn	Pissenlit	Diente de leon	Diente de leone	Løvetand	Papawa.
Dill	Dill	Aneth	Eneldo	Aneto	Dil.	Koper.
Egg Plant	Eierpflanze	Aubergine	Berengena	Petronciano	Aegplante	Gruszka milosna.
Endive, Curled	Endivien	Chicorée Endive	Endivia	Endivia	Endivie	Endywia.
Endive, Chicory	Chicorée-Scarole					
Broad Leaf	Escaroli	Ronde	Escarolo	Endivia Scariola		
Fennel	Fenchel	Fenouil	Hinojo	Finocchio	Fennikel	Koper.
Garlic	Knoblauch	All	Ajo	Aglio	Hvidloeg	Czosnek.
Horehound	Andorn	Marrube	Marrubio	Marrubio		Marubium.

FOREIGN NAMES OF VEGETABLES AND HERBS—Continued

English	German	French	Spanish	Italian	Danish-Norwegian	Polish
Horse Radish	Meer Rettig	Raifort sauvage	Taramago	Rafano	Peberrod	Chrzan.
Hyssop	Isop	Hyssope	Hisopo	Issopo	Isop	Hyzop.
Kale	Blätterkohl	Chou vert	Breton, Berza	Cavolo verde	Groenkaa	Solanka.
Kohl	Knollkohl	Chou-rave	Col rabano	Cavolo rapa	Kaalrabi	Kalarepa.
Lavender	Lavendel	Lavende	Espliego	Lavanda	Lavendel	Lawenda.
Leek	Porree, Lauch	Poireau	Puerro	Porro	Purre	Pory.
Lettuce	Lattich, Kopfsalat	Laitue	Lechuga	Lattuga	Salat	Salata.
Marjoram	Marjoran	Marjolaine	Mejorana	Maggiorana	Merian	Majeranek.
Melon	Melone	Melon	Melon	Melon	Melon	Melon.
Melon, Water	Wasser-Melone	Melon d'eau	Sandia	Melone d'aqua	Vandmelon	Melon, wodny.
Mushroom	Schwamm	Champignon	Seta	Fungo pratajolo	Champignon	Gryzb.
Nasturtium	Kapuciner Kresse	Capucine	Capuchina	Nasturzio	Blomkarse	Nasturcya.
Okra	Ocher	Gombaud	Gombo	Ocra	Hibiskus	Glinka biatozotta.
Onion	Zwiebel	Oignon	Cebolla	Cipollo	Roedloeg	Cebula.
Parsley	Petersilie	Persil	Perejil	Prezzemolo	Persille	Pietruszka.
Parsnip	Pastinake	Panaïs	Chirivia	Pastinaca	Pastinak	Pasternak.
Peas	Erbsen	Pois	Guisante	Pisello	Erter	Groch.
Pepper	Pfeffer	Piment	Pimiento	Peperone	Spank Peber	Pieprz.
Pumpkin	Melonen-Kürbiss	Potiron	Calabaza totanera	Zucca	Graeskar	Bania.
Radish	Radies	Radis	Rabanito	Ravanello	Reddik	Rzodkiew
Rhubarb	Rhabarber	Rhubarbe	Rubarbo	Rabarbaro	Rhabarber	Rubarbarum.
Rosemary	Rosmarin	Rosmarin	Romero	Rosmarino	Rosmarin	Rozmaryn.
Rue	Raute	Rue	Ruda	Rude	Rude	Ruta.
Ruta Baga	Kohlrübe, Wrucken	Chou-navet	Col nabo, Nabicol	Cavolo navone	Roe	
Saffron	Safran	Safran	Azafran	Zafferano	Safran	Szafran.
Sage	Salbei	Sauge	Salvia	Salvia	Salvie	Szalwija.
Salsify	Haferwurzel	Salsifis	Salsifi blanco	Sassefrica	Havrerod	Jarzynwia ostryga.
Sorrel	Sauerampfer	Oseille	Acedera	Acetosa	Syre	Szczaw.
Summer Savory	Bohnenkraut	Sarriette annuelle	Ajedrea comun	Santoreggia	Sar	Caber. ogrodowy.
Spinach	Spinat	Epinard	Espinaca	Spinace	Spinat	Szpinak.
Squash	Kürbiss	Courge	Calabaza	Zucca	Squash-graeskar	Miekurz.
Swiss Chard	Beisskohl	Poirée	Bleda	Bieta	Blad bede	
Thyme	Thymian	Thym	Tomillo	Timo	Timian	Macierzanka.
Tomato	Liebesapfel	Pomme d'Amour	Tomate	Pomo d'oro	Tomat	Pomidor.
Turnip	Weisse-Rübe	Navet	Nabo	Navone	Turnips	Rzepa, brukiew
Wormwood	Wermuth	Absinthe	Ajenjo	Assenzio	Malurt	Piotun.

Sorghum Grains for Stock Feeding

Horses, mules, cattle, sheep, hogs and poultry have been fed the grains of non-saccharine sorghums with very satisfactory results. Breeding animals or those which are working or being fattened for the block eat properly prepared sorghums with much relish. However as the grains are small and rather hard grinding or crushing is recommended before feeding except for sheep and poultry. Sheep masticate the small kernels well thus rendering them readily accessible to the digestive juices while poultry feed upon the unbroken grain which is especially palatable to them in this form. If the grain is not ground for other stock it is less palatable and much of it passes through the digestive tract unbroken; thus much of the total feeding value is lost.

Very often the entire heads are ground up producing a feed of greater bulk. The resulting meal called head chop, resembles corn-and-cob meal in food value. It is recommended especially where the supply of roughage is limited, and usually is economical for feeding stock not being finished for market. Head chop is valuable in producing a high finish when supplemented by a rich concentrate, such as cottonseed meal.

The quantities to be fed to the different kinds of animals depend upon many factors, such as the amount and kind of roughage and of other concentrates available, the age, type and size of the animals, and for what purpose the stock is being fed. Rations for various classes of stock are hereinafter suggested.

The feeder always should remember that sorghum grains alone do not form a balanced ration, and the same care which is exercised in feeding corn should be applied when feeding

grains of the sorghums. This applies with particular emphasis to the rations for young and growing stock. Some feed which is rich in protein must also be given if favorable results are to follow heavy feeding of this class of grains.

Millet as a Catch Crop

Millets are adapted to the same conditions as is sorghum. They do not require as long a growing season as does sorghum, but they also yield less. They are used chiefly as catch crops when the time is too short for other crops to mature. They are especially suitable for seeding where corn failed to make a stand or was destroyed by hail or flood. Seeding may be done between May 15 and July 15. The most commonly grown and probably best suited varieties of millet are the Common, German, Hungarian and Siberian.

Millet hay is an unsatisfactory feed for horses because of its injurious effect upon their kidneys. The degree of this injuriousness seems to be somewhat proportional to the degree of maturity. No injurious effects follow, however, when fed to cattle and sheep. It should be cut before the seed is formed when intended for horses, but may be left until the seeds are in the milk stage for cattle and sheep.

Being coarser, millet requires somewhat more time for curing than does timothy.

Sweet Clover for Pasture

Sweet clover should be primarily grown for green manure. It is, however, quite desirable for pasture because it makes an early growth in the spring, remains late in the fall, and does not die out, as many of our pas-

ture crops do, during the hot dry part of the summer. It is drought resistant and has the ability to produce a good quality of feed during the season of little rainfall.

It is a very nutritious feed and the few pasture experiments which have been conducted show clearly that it ranks well among pasture crops. Hogs, sheep, and cattle seem to be exceptionally fond of sweet clover pasture. The chief objection to it as a pasture crop is that the plants grow very coarse unless they are kept down. This is especially true the second season. Sweet clover should not be pastured too closely the first season, for if this is done the crop is likely to suffer from winter killing.

Sudan Grass is Good Feed

Sudan grass, which is yet new in the corn belt, is excellent food for live stock. It belongs to the sorghum family and compares favorably with the best kinds of silage crops. It may be broadcast, or drilled and it makes little difference in the yield of hay whether 10 pounds or 30 pounds of seed are sown to the acre, as it is a great stoker.

It can be sown as late as the latter part of July, and the early seeding sometimes makes two cuttings. It should be cut as soon as the bloom begins to drop and handled the same as sorghum. If the weather is hot and dry it can be cured into hay and stored.

In securing Sudan seed care must be taken to make sure not to get Johnson grass instead. Johnson grass is a great pest in certain sections and its seed so closely resembles that of Sudan grass that the average person can not tell the difference.

INDEX

Page	Citron	22	Garlic	18	Mimulus	43	Rose Multiflora	48	
Acroclinium	32	Clarkia	36	Geranium	39	Mirabilis	43	Rosemary	18
Ageratum	32	Clematis	36, 61	Gilliflower	49	Mole Traps	72	Roses	59-60
Alfalfa	72	Climbing Vines	61	Gladiolus	39, 56	Momordica	43	Roots	54-57
Alsike	72	Clover	72	Glazing Points	82	Moon Flower	43	Rue	18
Althea	65	Cobaea Scandens	36	Globe Amaranth	39	Morning Glory	43	Ruta Baga	31
Alyssum	32	Cockscombs	35	Gloxinia	39	Morning Glory	Dwarf	Rye	73
Amaranthus	32	Coix Lachryma	36	Gomphrena	39	Gooseberry	39	Saffron	18
Amaranth Globe	39	Cold-Frame	2	Gourd	39-40	Moss Rose	47	Sage	18
Anemone	32	Coleos	37	Grapes	58	Moss, sheet & spagnum	84	Salpiglossis	48
Animal Regulators	86	Collards	17	Grass Hooks	82	Mourning Bride	43	Salsify	28
Anise	18	Columbine	37	Grass Seed	74	Mushroom	23	Salvia	48
Anthirrhinum	49	Convolvulus Major	37	Grass Shears	82	Muskmelon	20-21	Sash, Hot Bed	82
Aquilegia	37	Convolvulus Minor	37	Gypsophila	40	Musk Plant	43	Savory, Summer	18
Arabis	32	Coreopsis	34	Guns, Insect	82	Mustard	23	Scabiosa	48
Artichoke	3	Coriander	34	Gumbo	23	Myosotis	38	Scarlet Flax	48
Asparagus	3, 32	Corn	15	Hardy Perennial Plants	61-65	Nasturtium	43-44	Schizanthus	48
Aster	33	Corn Flower	36	Hedge Plants	67	Nicotiana	43	Seed Drills	81
Baby's Breath	40	Corn, Field	70	Helianthus	49	Nigella	44	Seed Potatoes	26
Bachelor's Button	36	Corn, Planters	82	Helichrysum	40	Nitragin	72	Seed Sowers	82
Balloon Vine	34	Corn, Popcorn	70	Heliotrope	40	Novelties and Specialties	87-88	Seed Sweet Potatoes	26
Balsam	34	Corn Salad	16	Herbs	18	Oenothera	47	Sensitive Plant	48
Balsam Apple	43	Cosmos	37	Hibiscus Africanus	45	Oats	74	Shade Trees	68
Balsam Pear	43	Cowpeas	74	Hollyhock	40	Okra	23	Shoes, Wooden	82
Barley	73	Cress	16	Honeysuckle	61	Onions	22	Smilax	49
Basil Sweet	18	Crimson Treefoil	72	Horse Radish	18	Onion Sets	22	Snapdragon	49
Beans	4, 8	Cucumber	16	Horticultural Tools and Sundries	82	Ornamental Grasses	65	Sorghum	74
Beets	9, 10	Cucurbita	37, 39	Hot Beds	2	Ornamental Trees and Shrubs	65, 67	Sorrel	28
Begonia	34, 55	Cultivator, Hand, Garden or Wheel	81	Humulus Japonicus	40	Oxalis	44	Soy or Soja Bean	74
Bellis	37	Cup and Saucer	36	Humus	82	Pansy	44-45	Spinach	29
Bignonia Radicans	34	Currants	58	Hungarian	73	Papaver	47	Spray Pumps	85-86
Bird Seeds	71	Cyclamen	37	Hunnemannia	38	Parsley	23	Squash	29
Blackberry	58	Cypress Vine	37	Hyacinth Bean	38, 40	Parsnips	23	Stock	49
Bleeding Heart	54	Dahlia	37, 55	Iberis	40	Peas	24-25	Strawberry	59
Blackberry	58	Daisy	37	Ice Plant	40	Peas Everlasting	45	Straw Flower	49
Borage	18	Dandelion	14	Impatiens Balsamina	40	Peat	84	Sudan Grass	71
Borecole	18	Dandelion Exterminator	81	Immortelles	40	Pelargonium	45	Sugar Beet	10
Brazilian Morning Glory	43	Datura	37	Incubators	75	Pentstemon	45	Sugar Cane	74
Brocoli	10	Delphinium	41	Insecticides and Fungicides	84	Peony	45	Summer Cypress	41
Brooders	75	Devil-in-a-bush	44	Ipomoea	37, 40	Pepper	25	Sun Flower	49, 74
Broom Corn	75	Dewberry	59	Japanese Hop	41	Pepper Grass	16	Sweet Peas	50-52
Brushes	81	Dianthus	46	Job's Tears	41	Periwinkle	45	Sweet Rocket	49
Brussels Sprouts	10	Dibbles	81	Joseph's Coat	41	Pe-tsai	12	Sweet Sultan	36
Buckwheat	73	Dielytra (Dicentra)	55	Kaffir Corn	73	Petunia	46	Sweet William	53
Bulbs	54, 57	Digitalis	39	Kale	18	Phlox Drummondi	46	Swiss Chard	9
Butterfly Flower	65	Dill	18	Knives	81	Pie Plant	28	Tagetes	53
Cabbage	10, 12	Dimorphoteca	38	Kochia Trichophyela	41	Pinks	46	Thermometers	82
Caladium	55	Dolichos	38, 40	Kohlrabi	18	Plant Supports	82	Thyme	18
Calceolaria	34	Dusty Miller	36	Labels, Wood	82	Plant Tubs	83	Tigrinum	57
Calendula	34	Egg Plant	17	Lady-in-the-Green	41	Poormans Orchid	47	Tobacco	31
California Poppy	38	Emerald Feather	32	Lamps	82	Poppy	47	Tomato	30-31
Calliopsis	34	Endive	17-18	Lantana	41	Portulaca	47	Tritoma	57
Campanula	36	Escarolle	17	Larkspur	41	Potatoes, Irish	26	Tropaeolum	53
Canary Bird Flower	34	Eschscholtzia	38	Lathyrus Latifolius	41	Potatoes, Sweet	26	Torenia Fournieri	53
Candytuft	36	Evening Glory	38	Lathrus Odoratus	41	Potting Soil	84	Trowels	82
Cannas	35	Evergreens	38	Lavender	18	Poultry Feeds and Supplies	75-80	Trumpet Vine	61
Canes-Bamboo	81	Everlastings	40	Lawn Grass	69-70	Powder Dusters	86	Tuberose	57
Canning Directions	89, 90	Farm Seeds	73-74	Lawn Rollers	82	Primrose	47	Turnip	31
Canterbury Bell	36	Miscellaneous		Leek	18	Primula Simensi	40	Twines, Cotton or Jute	82
Caraway	18	Fennel Sweet	18	Lettuce	19-20	Pruning Shears	82	Vegetable Oyster	28
Carpet of Snow	32	Ferns	38	Lilies	57	Pumpkin	23	Verbena	53
Carnation	35, 36	Fertilizers	83-84	Linum	41	Putty, Bulb	82	Vetch or Tare	73
Carrot	12	Feverfew	38	Lobelia	41	Putty, Liquid	82	Vinca	53
Cassaba	22	Field Peas	73	Love-in-a-Mist	41	Putty Machines	82	Viola Tricolor	53
Castor Bean	35	Flax	73	Lucerna or Alfalfa	41	Pyrethrum	48	Vines	61
Cauliflower	13	Flower Pots and Saucers	83	Lupin	41	Radish	27-28	Virginian Stock	53
Celery	13-14	Flowering Sage	48	Maderia Vine	57	Raffia	82	Wall Flower	53
Celery Cabbage	12	Flower Seeds		Malcomia	41	Rape	73	Watermelon	21-22
Celeriac	13	Culture	32	Mangrel Wurzel	10	Raspberry	59	Weeders	81-82
Celosia	35	Flower Seeds	32-54	Marigold	41-42	Rat Exterminator	82	Wild Cucumber	53
Centaurea	36	Forget-Me-Not	38	Marjoram Sweet	18	Red Hot Poker	57	Wire Baskets	81
Cheiranthus	36	Forks, Digging, Spading, Weeding	82	Marvel of Peru	42	Reference Tables	91	Wistaria Chinensis	54
Chervil	14	Four O'Clock	38	Mathiola	42	Rhodanthe	48	Woolflower	35
Chicory	17	Foxglove	39	Matricaria	42	Rhubarb	28	Worm Wood	18
Chinese Cabbage	12	French Honeysuckle	39	Maurandia	42	Ricinus	48	Zinnia	54
Chinese Primrose	40	Fruit Trees	58	Mesembryanthium	40	Rocket Sweet	48		
Chives	17	Fuchsia	39	Mexican Fire Bush	41				
Chrysanthemum	36-37	Gaillardia	39	Mignonette	42				
Cineraria	36	Garden Implements	81-82	Millet	73				

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1922